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The
HEMIST AND DRUGGIST
for RETAILER - WHOLESALER - MANUFACTURER
lished 1859 28 Essex Street, Strand, London, W.C.2 Registered as a Newspaper

3494
XLVII JANUARY 25, 1947 Annual Subscription (with Diary) 30/-. Single copies 1/-.

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PROGRESS in the therapeutic field has always been the aim of the Lilly Research Laboratories, and in the case of Barbituric Acid derivatives some notable products have resulted. Judged by criteria of potency, uniformity, stability and purity these products rank high and command the confidence of the medical profession. In keeping with the Lilly Policy distribution is reserved to the Drug Trade.

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sterilised solutions

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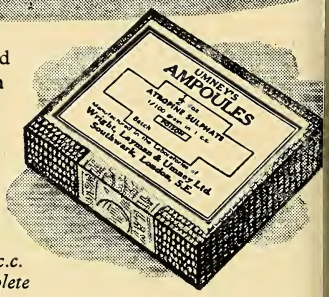
Umney's Ampoules, now produced in our reconstructed factory, are filled, sealed and labelled by the most modern processes and are available at favourable prices. Carefully controlled materials are introduced under expert supervision into ampoules of alkali-free glass. The most recent approved methods of sterilisation are adopted, being either those of official publications or of other recognised authorities.



N.B. 1 *c.c. sizes contain* 1.1 *c.c.,* 2 *c.c. contain* 2.1 *c.c.,* 5 *c.c. contain* 5.1 *c.c. of fluid, and so on, to ensure that the complete dose may be withdrawn.*

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Change is the order of the day. There are shifts in the social wage structure. Purchasing power is undergoing a change and values are far from stabilised. The trend of many a market is in the balance. New lines are being marketed and old lines which disappeared during the war are re-appearing in uncertain quantities but without the backing of really powerful advertising to ensure their re-establishment. In fact running a retail business just now is like navigating a ship in an imperfectly charted sea.

What does a chemist look for in his dealings at a time like this? What do *you* look for when the stocking of a line is under consideration and you must decide how much of it to carry? Is it not the reputation of the manufacturer who sponsors that line? Does he understand your business governed by today's shifting trends? And has he judged right in the past few years the avenues opportunity to maintain or incr sales? In short does he prod *selling* lines?

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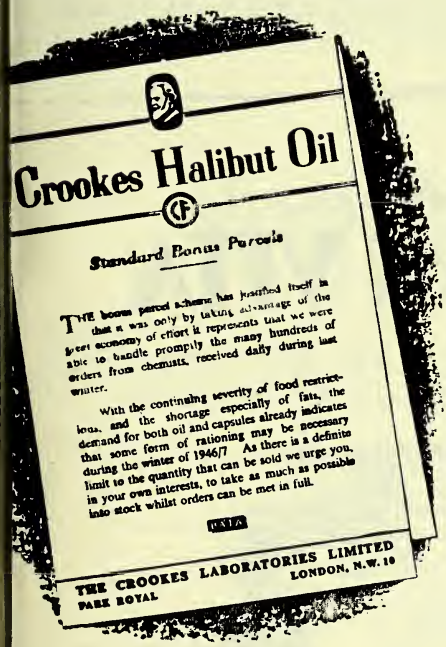

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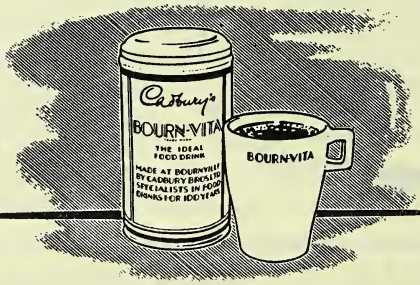

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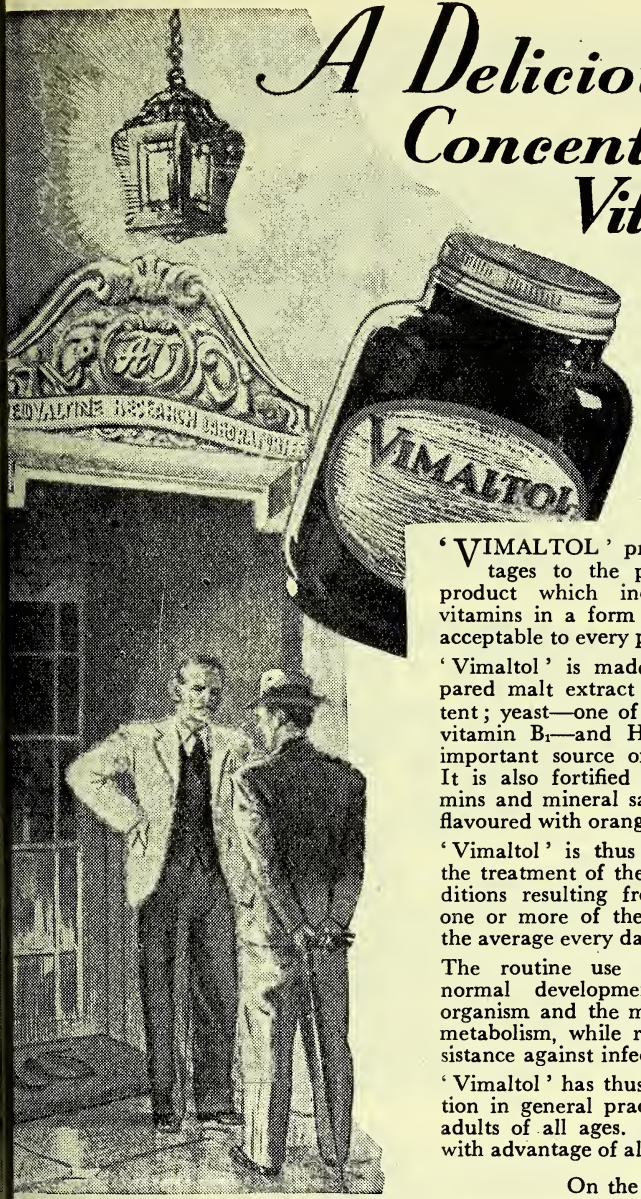

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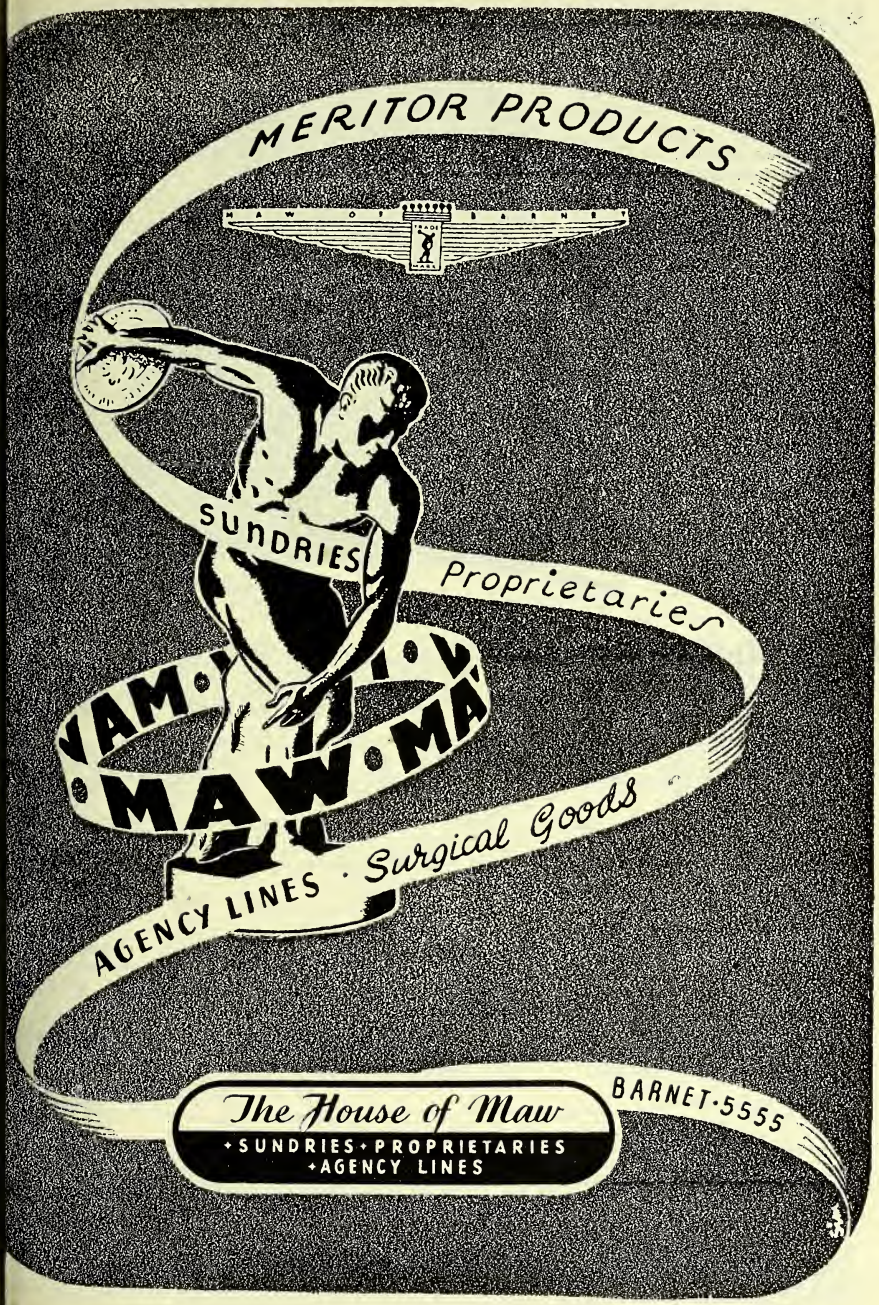
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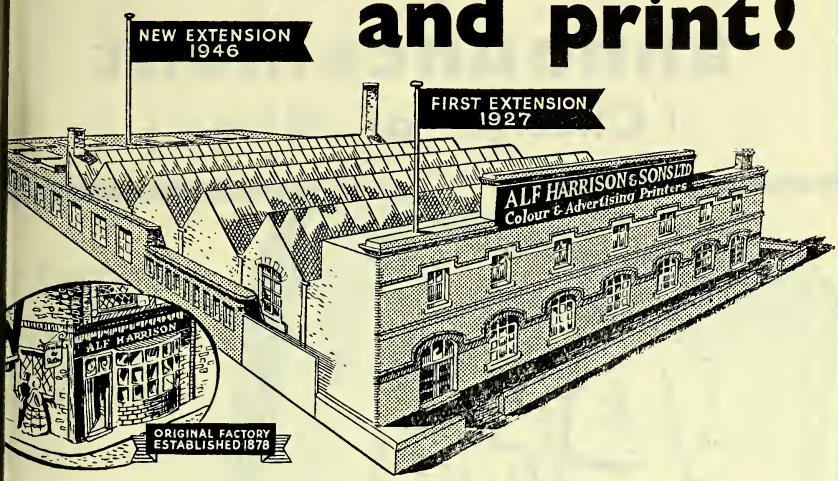

We have pleasure in informing our many customers at Home and Overseas that large factory extensions have just been completed **which will increase our production capacity by at least 50%.** The installation of speedier and modern plant means more economy both in time and cost. Enterprise has now placed us in a better position than ever to give the service so essential to modern conditions.

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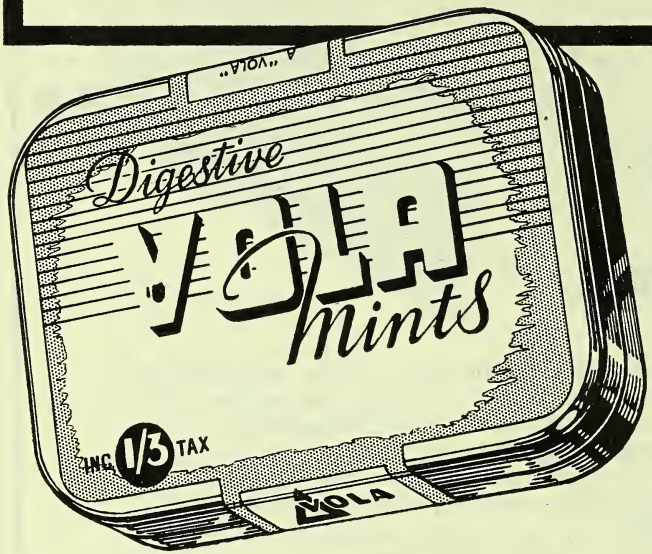

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PENICILLIN LOZENGES—M & B are designed for the oral treatment of all infections of the mouth and throat which are known to be caused by organisms sensitive to Penicillin notably Vincent's infection.

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Containers of 25 and 50 lozenges.

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TAS/AL. 115A

This is what KODENO *means to you . . . . . .*

The English Pharmaceutical Company, Ltd., presents KODENO, a newly marketed analgesic tablet. Your customers will find it safe and effective. You will find it easy and profitable to sell . . . 4½d. profit on a 1 3d. tube; plus 2d. p.t. KODENO comes to you in attractive display outers and will be supported by convincing National Advertising. Watch following issues for details of this National Advertising campaign. Remember, too, that it will always be the policy of the English Pharmaceutical Company, Ltd., to satisfy you and your customers by marketing products of high quality, reasonable price and sales effectiveness.

P.A.T.A.

Sold through chemists only.

A Product of THE ENGLISH PHARMACEUTICAL COMPANY LTD. LONDON, E.C.4.

AN AID TO THE NATURAL DEFENCE MECHANISM

hile it is obvious that no antiseptic ill completely kill all of the bacteria und on the membranes of the upper spiratory tract, nevertheless, many fections of the nose and throat are eneficially treated by the use of a on-toxic, non-irritating antiseptic.

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Acute Gastro - Intestinal Infections

DIMOL SYRUP

for

RAPID ACTION

PRICE	Minimum Retail Price	Tax Each	Minimum Wholesale Price
4 oz.	3/6	5d.	29/5 doz.
16 oz.	12/-	1/5	100/10 „

Whatever the Gastro - Intestinal condition DIMOL is indicated

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Telegrams: "Ampsalvas London."
Telephone: HOLborn 6011.

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9d. BOX PROFIT by ordering 1 dozen 2/10
Bonus box given on every dozen (13). It pa
posh this size.

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You can recommend Drury's Infants' Preservative with every confidence. It is safe, effective, and a most excellent remedy for Wind Spasms, Griping pains, and other distressing complaints incidental to infants at the period of cutting their teeth.

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INFANTS
PRESERVAT

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SUSPENSION OF PENICILLIN
(Calcium Salt)
A sterile suspension in ethyl oleate with beeswax.

OILY INJECTION OF PENICILLIN, B.P.

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(Calcium Salt)
with SULPHATHIAZOLE
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BOOTS PURE DRUG COMPANY LIMITED NOTTINGHAM

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PATA

"..... the search for an IDEAL ANTACID has long exercised the minds of gastro - enterologists and I have no hesitation in acclaiming MAGTRIZ as conforming to an accepted ideal", writes M.D.

Pack	Retail In.P.T.	Trade doz.	Pur. Tax doz.
1½ ozs.	2/6	18/-	3/-
4 ozs.	4/9	34/-	5/8

From your C.F. Wholesaler or, in case of difficulty from the manufacturers,

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THE SAFE REMEDY
Owbridge's
LUNG TONIC
FOR 72 YEARS

New, arresting advertising in the National and Provincial Press— in Magazines—on Poster Sites— with new display material available to chemists, will keep the name of **Owbridge** before the public again this season for the 73rd year in the life of this well known remedy.

NOW 1/3 A BOTTLE (INCLUDING PURCHASE TAX)

PATA

Be Prepared!

More and more people, both through our advertising and through their experience, are getting to know that SevenSeaS Cod Liver Oil is the answer to sun-starvation. Add two facts —that 1946 was a poor year for sunshine, and that this is the sixth winter of fat rationing, and you see why we say — be prepared for a strong run on your SevenSeaS supplies — oil *and* capsules!

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NODAN—Prepared from a new and highly scientific formula obtains results very rapidly. Eradicates scalp disorders, stops scurf irritation. Non-toxic, non-greasy, does not stain. Sells at 3/10½d. per bottle, including tax.

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Full particulars on application from the
SOLE DISTRIBUTORS
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HARKUMS
efficacious and pleasant, with 50% sugar content — packed in 1/6 tins.
Trade Price 10/6 per doz., plus Purchase Tax (16⅔%) or £6.19.8 per gross. C. w. O.

QUICK SELLING SEASONABLE LINES

UNIVERSALS
6½d. and 3½d. in attractive Display outers. Trade Price (6½d. size) 47/- per gross, plus tax or £2.12.1 C. w. O. and (3½d. size) 25/6 per gross, plus tax or £1.8.4 C. w. O. IMPROVED BASE.

Harcombe Cooper Sales Ltd
ROUNDHAY GRANGE
LEEDS 8

Dr. J. Collis Browne's Chlorodyne and The Pharmacy and Poisons Act, 1933

Dr. J. Collis Browne's CHLORODYNE

SALE RESTRICTED TO REGISTERED CHEMISTS

PURCHASER'S SIGNATURE NOT REQUIRED

Sole Proprietors:
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UNION ST., LONDON, S.E.1

ARCANCIL
Mascara
for your eyelashes

Does not smart

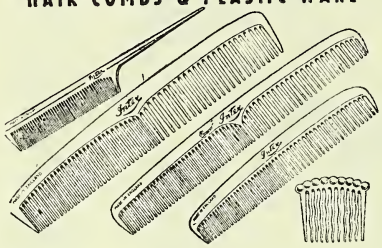
VALDOR

Made by the makers of the famous VAL GUITARE Lipstick

Intex REGD.

THE NAME FOR WHICH TO LOOK WHEN BUYING

HAIR COMBS & PLASTIC WARE



OUTSTANDING in QUALITY and DESIGN

CABLES: "INTEXPRESS," LONDON

INTERNATIONAL EXPRESS COMPANY LTD.

IMPERIAL HOUSE, REGENT STREET,

LONDON, W.1, ENGLAND

CONTROL OF HEAD LICE

Nits and Head Lice can now be dealt w quickly and economically without unpleas evidence of treatment.

An N.W.F. formula now being used exte sively by Public Health Authorities.

'Semprolia' BRAND

MEDICATED (LETHANE) HAIR OIL N.W

Insecticide for control of Nits and Head Lice

★

'SEMPROLIA' MEDICATED (LETHANE) HAIR OI IN URGENT AND RAPIDLY INCREASING DEMA

Retail (2-oz.) 1/1½d. including P.T. List 8/- doz. Packed in 2-dozen outers.

P.A.T.

STEMCO LTD., 128, *Albert Street, London, N.*

Agents in Eire—May Roberts (Ireland) Limited, Du

THIRTY YEARS REPUTATION

Kenrosa HAIR PREPARATIONS

Kenrosa COCOA NUT OIL SHAMPOO POWDER

Everyman's HAIR CREAM

Doctor HARR'S 6-8-6-B SCURF and DANDRUFF lotion 2/3 GUARANTEED TO REMOVE SCURF & DANDRUFF AND TO NOURISH THE HAIR BRITISH MADE

Kenrosa LTD.

LONDON. E.5.

Manufacturers of PASHANA FOUGERE LOTIONS, TONFREY'S DRY SHAMPOO ETC.

De-restricted!

1947 opens up almost unlimited sales possibilities r ALKA-SELTZER after its long absence due to wartime restrictions. nce again supplies of this popular and big pre-war seller are freely ailable and no longer restricted. The vigorous pre-war National and ovincial advertising has been resumed and increased for 1947.

Be sure you have adequate stocks of LKA-SELTZER. Attractive window and unter display material, sent with every parcel, ll bring new customers into your shop.

Write for trade price-list and particulars display discounts to :

RETAIL PRICES:

SMALL SIZE (12 TABLETS) **1/5**

LARGE SIZE (30 TABLETS) **2/10**

Including Purchase Tax

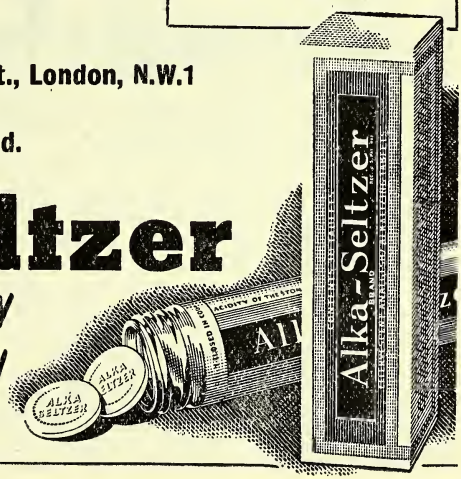
Don S. Momand Ltd., 57 Albany St., London, N.W.1

Sole Distributors for

Miles Laboratories Ltd.

Alka-Seltzer

QUICK DOUBLE-ACTION
LKALISES, RELIEVES PAIN



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(Ammonium, Potassium, Sodium B.P.)

regularly available for export to all markets

produced by

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Registered Office :
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ONE of the TENNANT Group of COMPANIES

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Telephone : Monarch 7741 — *Telegrams :* Tennants, Stock, London

FOR
BARKS
ROOTS
HERBS & GUMS

WHOLE
CUT
or POWDERED

TRY—

BROME & SCHIMMER

WHOLESALE DRUGGISTS
BOTANICAL DRUG IMPORTERS
AND SPICE MERCHANTS

4 LEATHER MARKET, LONDON, S.E.1

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Specialists in Crude Drugs

The New *Barrier Cream !*

dermoclean

TRADE MARK

"NO MORE DIRTY HANDS"

Contains 0·2% p-chlor-m-cresol—
a powerful antiseptic and germicide

Applied to the hands, the imperceptible coating effectively prevents dirt from penetrating the pores. When hands are washed, the skin is clean and smooth.

A display on the counter appeals to a wide range of customers, such as the MOTORIST, GARDENER, HANDYMAN & HOUSEWIFE

(Showcard Available)

Retail Price : 2/- per pot, including Purchase Tax.
TRADE PRICE : 13/6 per doz., plus 33⅓% Purchase Tax.
C.A. 131a **12 doz.—12/- per doz., plus 33⅓% Purchase Tax.**

Our Abridged Price List is now available, on receipt of 1d. stamp to conform with Regulations.

CLAY & ABRAHAM LTD., *Manufacturing Chemists,* **LIVERPOOL, 1**

★ Supplies of Ann Carol Beauty Preparations are increasing week by week, and before very long the range will be available again in pre-war quantities.

Enquiries invited from retailers for agencies at Home and Overseas.

Trade terms: 33⅓% plus cash discount.

★ Ann Carol BEAUTY PREPARATIONS

3 Sackville Street
iccadilly, London, W.1

IF YOU'RE OUT OF ONE RECOMMEND THE OTHER

In these days, when, do what we will, we cannot always cope with demand, there is an added advantage in the two kinds of Parmint and their three sizes. All our Press advertising features both Parmints and mentions all their prices. At the moment the 1/5 ready for use Parmint Syrup is in short supply If you are temporarily out of stock, recommend your customers to take a 2/10 bottle or a 3/1½d. bottle of the Parmint Concentrated Essences.

and P.A.T.A

INTERNATIONAL LABORATORIES LTD.
1-3, SMEDLEY STREET, LONDON, S.W.8

Bismurelle
PERFUMES

can now be supplied . . .

LA VICTOIRE and three other bouquets — *Coquine*, *Fleuri* and *Bruyere*. Supplies are limited so order yours NOW!

Singly boxed 36/- per doz. Retail price (including Tax) 7/6 each

In Two's 74/- per doz. Retail price (including Tax) 15/5 each

In Four's 144/- per doz. Retail price (including Tax) 30/- each

★ *English Agents:* **BARNES, GOWLAND & CO. LTD.**
6 Drapers' Gardens, Throgmorton Avenue, London, E.C.2
Telephone: CENtral 0465/6

SAFELY REMOVES SUPERFLUOUS HAIR FROM ARMS & LEGS

MADE IN ENGLAND

RETAIL 1/9

PER PACKET OF THRE
DOUBLE SIDE PADS
FROM ALL WHOLESALER

ALFRED FRANKS & BARTLETT Co. Ltd
Audrey House, Ely Place, London, E.C.1

Ready for you NOW

Goodall's WATERGLASS

In attractive leak-proof tins. Gives a clear, clean fluid. Ample supplies available.

GOODALL, BACKHOUSE & CO. LTD.

SOVEREIGN STREET, LEEDS.

14T

Potter's

Catarrh Pastilles

RETAIL
1/3 each
WHOLESALE
9/- per doz.
plus Purchase
Tax 1/6

P.A.T.A.

. . . . . are still in short supply. WE do our utmost to equalise distribution to Chemists.

YOU can help by ensuring that those whose need is greatest receive their share. Please economize.

POTTER & CLARKE L.TD

60-64 Artillery Lane, LONDON, E.1.

and

77 Dantzic Street, MANCHESTER 4.

A new product

Associated Research—medical and pharmaceutical—by A.R. Limited has developed Aspralgic Balm—a non-greasy massage cream containing an accurately determined percentage of 4-dihydroxyphenyl-β-methylaminoethanol

$$[C_6H_3(OH)_2CHOH.CH_2.NH.CH_3.]$$

Extensive clinical experience with this preparation has shown it to afford marked relief in all cases of rheumatic conditions (excepting osteo-arthritis). It is released for sale to the public, through pharmacists only, from January 1, 1947.

- **Advertised in 70 newspapers**
- **Certain sales**
- **Profitable repeats**

Adequate supplies are—for the moment — available. Packed in 2 dozen display outers, Aspralgic Balm sells retail at 3/- per tube. (Trade 24/- per dozen, 13 to the dozen on orders of 4 dozen or more). Order now.

A NEW ADDRESS

Owing to increased demand for Aspralgic Remedies, A.R. Limited have taken new offices and enlarged warehouse space at King's Cross, London, N.1

A.R. LTD

19 New Wharf Road
King's Cross, London, N.1

Telephone : Terminus 4138

'B.W.&Co.'
A MARK TO REMEMBER

In emergencies

'NICAMIDE'
BRAND

INJECTION OF NIKETHAMIDE

The well-known stimulant and restorative properties of 'Nicamide' make it an important item in the physician's emergency bag. Professional demands are frequent and often urgent—check your stocks regularly and see that your dispensing department is always ready to fill immediate requirements.

'NICAMIDE' Injection of Nikethamide
BRAND
2 c.c. ampoules, in boxes of 6, 25 and 100
5 c.c. ampoules, in boxes of 6 and 100

Also available:
'NICAMIDE' Solution of Nikethamide *(for oral administration)*
BRAND
Bottles of 15 c.c. (with pipette) and 100 c.c.

BURROUGHS WELLCOME & CO.
(THE WELLCOME FOUNDATION LTD.)
LONDON

ASSOCIATED HOUSES: NEW YORK MONTREAL SYDNEY
CAPE TOWN BOMBAY SHANGHAI BUENOS AIRES CAIRO

(T.19)

P.A.T.A.

KNOLL LIMITED
LONDON, W.I

DICODID
Trade Mark Brand
Dihydrocodeinone

Powerful Antitussive

In respect to its action "Dicodid" stands midway between morphine and codeine. It possesses a definitely specific influence on the cough centre, three daily doses of only gr. $\frac{1}{13}$ being equal to three doses of gr. $\frac{1}{2}$ codeine. There is but slight interference with expectoration, so that the preparation may also be used in cases where retention of sputum would mean danger to the patient.

DILAUDID
Trade Mark Brand
Dihydromorphinone

BROMURAL
TRADE MARK BRAND
a-monobromisovalerylcarbamide

CARDIAZOL
TRADE MARK Leptazol BRAND

Cardiazol Dicodid
TRADE MARKS BRAND
Leptazol with Dihydrocodeinone

"Cardiazol" Ephedrine
TRADE MARK BRAND
Leptazol with Ephedrine

Calcium "Diuretin"
TRADE MARK BRAND
Theobromine-calcium-salicylate

Iod Calcium "Diuretin"
TRADE MARK BRAND
Iodo-theobromine-calcium-salicylate

STYPTOL
TRADE MARK BRAND
Cotarnine phthalate

VERITAIN
Trade and Mark

VERITOL
Trade Mark
Brands of Pholedrine

DISTRIBUTED BY

Savory & Moore Ltd
Chemists to The King
Lawrence Road, Tottenham, N.15

"OXOID"

The word "OXOID" is the trade mark of OXO Ltd., and is used in connection with their therapeutical preparations both in tablet and fluid extract form.
ORGANO - THERAPEUTICAL PRODUCTS

OXO LABORATORY PREPARATIO

HORMONES

OESTRIN
Indications: Menopause; Menstrual Irregularities; Uterine Inertia; Amenorrhœa; Pruritus Vulvæ; Suppression of Lactation.
Tablets: 1000 I.U. Ampoules: 1000-50000 I.U.

STILBOESTROL
Indications: As for Oestrin.
A highly potent œstrogenous substance for oral administration.
Tablets: 0.5 mg., 1.0 mg. and 5.0 mg.
Ampoules: 1.0 and 5.0 mg.

PROGESTERONE
Indications: Habitual Abortion; Menorrhagia; Functional Uterine Hæmorrhage; Dysmenorrhœa; Toxæmia of Pregnancy.
Ampoules: 1.0 mg., 2.0 mg. and 5.0 mg.

"PITOXYLIN" PITUITARY EXTRACT (P.L.)
Licensed and standardised in accordance with the Therapeutic Substances Act. For the Induction of Labour; Uterine Inertia; Post Partum Hæmorrhage; Surgical Shock; Diabetes Insipidus.
Ampoules: 5, 10 and 20 I.U.

ADRENALIN
Useful for the treatment of Asthma; Epistaxis; Tonsilitis; Hay Fever; Influenzal Crisis; Surgical Shock; etc.
Solution: 1 in 100 and 1 in 1000 Ampoules: 1 in 1000

OXO LIMITED
THAMES HOUSE, LONDON, E.C.4

THE LABORATORY PREPARATIONS

The
CHEMIST AND DRUGGIST
For RETAILER—WHOLESALER—MANUFACTURER
shed weekly at 28 ESSEX STREET, STRAND, LONDON, W.C.2
Telegrams: "CHEMICUS, ESTRAND LONDON." Telephone: CENTRAL 6565 (10 lines)

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NEWS OF THE WEEK

al Allocations for Industry.—A Board ade official stated on January 20 that ood industry and some chemical works l be among users having first call on eserve pools.

omen Pharmacists' Dance.—At the al dance of the National Association omen Pharmacists held in London re- y those present included Mrs. J. K. e (vice-president of the Pharmaceuti- ociety), Mr. J. C. Young and Miss C. Islip (members of the Society's cil) and Mr. H. Treves Brown (British maceutical Conference).

rchase Tax Notice Revised.—Copies revised edition of Purchase Tax Notice 78 (Goods chargeable with Purchase , are being sent by local collectors of oms and Excise to all registered traders. revised edition, dated December 1946, rsedes Notices Nos. 78 (July 1944) and plement (June 1946), 78D (October), 78E (April 1946) and 78F (July) and all additions and amendments to issued up to December 1, 1946.

Common Cold Research Volunteers.—More than 1,200 offers of assistance have been received in response to an appeal for volunteers willing to co-operate in attempts to isolate the virus of the common cold at Harvard Hospital, Salisbury (see *C. & D.*, January 18, p. 78). All applications will be acknowledged and it is hoped to establish a panel from which volunteers will be available at call.

British Pharmaceutical Conference.—Research workers who wish to read papers on subjects of practical pharmaceutical interest at the British Pharmaceutical Conference in September are invited to submit the titles of their papers so soon as possible to the Conference general secretaries, 17 Bloomsbury Square, London, W.C.1. Completed manuscripts, preferably not exceeding 4,000 words, should be received not later than July 19.

Theobromine (Cocoa Drawback) Regulations.—Under the provisions of the Theobromine (Cocoa Drawback) Regulations, 1947, conditions are given for the

supply of cocoa residues, in respect of which drawback is claimed, for use in the manufacturer of theobromine. These conditions deal with claims for drawback, the authorisation of premises for manufacture, storage of the residues, records and inspection, and the disposal of residual products. The Order (S.R. & O., 1947, No. 51) is published by H.M. Stationery Office, price one penny.

Export of Cocoa Butter.—The Ministry of Food announces that, by international agreement, cocoa butter may only be exported if the country of destination is prepared to surrender an equivalent quantity of cocoa beans from its allocation by the International Emergency Food Council in favour of the country making the export. The agreed rate is 100 tons of cocoa beans for every forty tons of cocoa butter. Applications for an export licence should only be made when the country of destination has issued the necessary import licence (except in cases in which import licences are unnecessary) and the number of the import licence must be quoted on the application.

Control of Outdoor Advertising.—The display of advertisements may be restricted or regulated "so far as appears to the Minister to be expedient in the interests of amenity or public safety" under clauses in the Town and Country Planning Bill, the text of which was published recently. The Bill provides for regulations to control the dimensions, appearance and position of advertisements and the sites on which they may be displayed. It may become necessary to obtain the consent of the local planning authority for the display of advertisements. Special regulations may be made for "areas of special control," i.e., rural areas or areas which appear to require special protection on grounds of amenity.

F.B.I. Taxation Policy.—The Federation of British Industries has submitted a memorandum to the Chancellor of the Exchequer on its taxation policy and has made the following recommendations in connexion with the forthcoming budget: (1) That taxation should be substantially reduced even at the cost of a temporarily unbalanced Budget. (2) That the reduction should be concentrated on direct taxation, but should above all be designed to encourage production. (3) That no special tax should be imposed on business profits but, on the contrary, the Profits Tax (N.D.C.) should be repealed. (4) That there should be a special inquiry into the efficiency of the National expenditure.

Appeal for Increased Output.—A Wh Paper recently presented to Parliament the Minister of Labour and National S vice ("Statement on the Economic Co siderations affecting relations between E ployers and Workers," Cmd. 7018, pr twopence) sets out a summary of the prese economic position in Great Britain, a emphasises the need to increase exports, improve the distribution of labour and keep production costs steady. It is nec sary, says the White Paper, to increase work done per person, in Government a public services, and in the distribut trades, as well as in manufacturing ind tries. The document has been issued association with and with the endorsem of the National Joint Advisory Cour which consists of representatives of British Employers' Confederation and Trades Union Congress.

Air Mail Postage Rates.—The Po master General has announced the foll ing revised rates for air mail letters a postcards to countries outside Europe Middle East, including Egypt, Palest and Iraq, 6d. per ½ oz. (postcards 3 East, West and South Africa, In Ceylon, Malaya and Hong Kong, U.S Canada, Newfoundland, Argentine, Bra Chile, Paraguay and Uraguay; 1s. per ½ (postcards 6d.); Central America, W Indies, Bolivia, Ecuador, Peru, Venezu and the Guianas, 1s. 3d. per ½ oz. (p cards 7d.). The sixpenny air letter ser has been extended to U.S.A., Guam, Panama Canal Zone, Porto Rico, Hav and the Virgin Islands of the U.S.A. sea and air service to Canada, U.S Central and South America, the W Indies, Guam and Hawaii has been continued.

Examination Results.—The follow candidates were successful in the Che and Druggist Qualifying examination in England and Wales in January:—

Batten, Joseph Walter, Basingstoke.
Davies, John Roger, Llanelly.
Denny, Margaret Aileen Cameron, don.
Evans, Deric Clifford, London.
Humphries, Jack, Glossop.
Jones, Gwilym, Cardiff.
Isherwood, Thomas Haslingden, Lan
Lennon, Francis John, Liverpool.
Lord, Audrey Mary, Hove.
MacLeod, Malcolm Murdo, Stornov
Naylor, Roy, Hazel Grove, Cheshire.
Powell, Thomas George, Oldham.

ce, Kenneth Alfred, Letton, Hereford.
berts, Rhiannon, Chester.
elton, Myrtle Joan, Nottingham.
npson, John, Peterhead.
ith, Allan Leslie, Portsmouth.
omas, Cecil Price, Penygroes, Carnarvon.
oth, Irene Marjorie, Burton-on-Trent.
ebster, Elizabeth Gertrude, Wigan.

ow of Medical Films.—A preview of films on medical subjects, prepared for Ministry of Health by the Central e of Information, was given in London January 16. "Penicillin in Medical tice," a colour film designed for cal audiences and especially for ral practitioners, shows the most effec- methods of using penicillin. The open- cenes illustrate the precautions neces- to preserve the activity of penicillin, choice of antiseptics for use with it and forms in which penicillin may be pre- d for treatment. The remainder of the demonstrates the use of penicillin in esentative medical and surgical cases, ing the specific treatment at different s. The film was prepared in co-opera- with St. Mary's Hospital, London, and aims at embodying the latest in- ation on penicillin therapy available in l 1946. "Scabies, 1946" is a re-edited ion of a film made in 1943 and is gned to give medical audiences up-to- information on the diagnosis and cure abies. At the request of THE CHEMIST DRUGGIST, the Ministry of Health has ed to allow the sound film "Penicillin Medical Practice" to be shown to *bona* audiences of pharmacists when suffi- t prints are eventually available. Appli- ns should be made to the Central Film ary, Imperial Institute, Exhibition d, London, S.W.7.

LOCAL NEWS

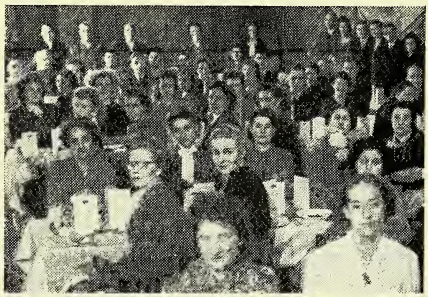
heffield Children's Party.—Eighty-four dren were entertained at a party given ntly by the Sheffield Branch of the rmaceutical Society.

irmingham Lecture on Anæmias.—Dr. M. Merriman (medical information de- ment, The British Drug Houses, Ltd.), ribed to a recent meeting of the Bir- gham Pharmaceutical Association the rent types of anæmias and the methods l in their treatment.

arty at West Ham.—Despite bad ther there was a good attendance at a v Year party organised by the West Ham Association of Pharmacists on January 2. Mr. T. Mansfield acted as master of ceremonies, and the guests were received by Mr. R. L. Worth (president) and Mrs. Worth. Whist prizes were won by Mrs. G. P. Bowen and Mr. S. Robinson, and a quiz competition was won by Mr. D. Thurston.

Glasgow "Welcome Home" Dinner.—The Glasgow and South-western Scottish Branch of the Pharmaceutical Society is holding a "welcome home" dinner and dance on Tuesday, April 8, for all members who have served or are still serving in the Forces. Two complimentary tickets will be sent to each Service or ex-Service member who applies not later than January 31 to Mr. Andrew Officer, 400 St. Vincent Street, Glasgow, C.3. A limited number of tickets (price approximately 15s.) will be available for other members.

North London Dance.—Employees of Drugs, Ltd., manufacturing chemists, London, N.10, were recently entertained at a dinner and dance held to pay tribute to those who had worked loyally during the war and to welcome those who had returned to the company from war service.



Some of the guests at a dinner and dance given recently by Drugs, Ltd., London, N.10.

Glasgow Presentation.—At a dinner held in Glasgow, recently the directors, travelling staff and heads of departments of W. & R. Hatrick, Ltd., met to make a presentation to Mr. John H. Ramsay, on the occasion of his appointment as manager of T. & H. Smith, Ltd., Edinburgh. Among those present were Mr. Peter Shields (manager, W. & R. Hatrick, Ltd.), Messrs. Hiddleston and Mackay (directors), Mr. McAdam and Mr. Graham (director and manager, T. & H. Smith, Ltd., Glasgow). Mr. Mackay, who was in the chair, gave an account of Mr. Ramsay's career.

COMPANY NEWS

D. Charteris, Ltd. (P.C.).—Capital £3,000. To carry on the business of chemists and druggists, etc. First directors are not named. R.O.: 57 Main Street, Kilsyth.

Charmex (Cosmetics), Ltd. (P.C.).—Capital £100. To acquire the business of cosmetic manufacturers carried on by Gaston Proot and Herbert C. McBride as "Charmex." Gaston Proot (Belgian), Herbert C. McBride and Lewis E. Bertuchi, directors. R.O.: 18 Hanover Street, London, W.1.

W. G. Reid (Tain), Ltd. (P.C.).—Capital £1,500. To acquire the business carried on by Mrs. Amelia G. Reid and George H. Reid, and to carry on the business of wholesale and retail chemists, pharmacists, druggists, etc. Mrs. Amelia G. Reid and George H. Reid, directors. R.O.: 23 High Street, Tain, Ross-shire.

H. L. Gerry & Son, Ltd. (P.C.).—Capital £2,500. To acquire the business of a pharmaceutical chemist, druggist and optician carried on by Edith D. Gerry at 4 Eastgate Row, Chester; and 6 Eastgate Street, Chester, as "Horace L. Gerry." Mrs. Edith D. Gerry, John Gerry and Barbara N. Gerry, directors. R.O.: 4 Eastgate Row, Chester.

Osborne & Beeby, Ltd. (P.C.).—Capital £6,000. To acquire a business of chemists carried on by F. Slawson and G. S. Daykin as "Osbornes," and the freehold premises known as 19 St. John Street, Ashbourne, Derby. F. Slawson, G. S. Daykin, George Shaw, William J. Peacock, R. A. Daykin and O. Beeby, directors. R.O.: 19 St. John's Street, Ashbourne.

Richard Sroka Products, Ltd. (P.C.).—Capital £5,000. To acquire the business of manufacturers and sellers of a cold permanent waving process, together with formulæ for lotions and other processes used in connexion therewith now carried on by Richard S. Richards and Clifford B. Sroka at 20 Grafton Street, London, W.1. Richard S. Richards and Clifford B. Sroka, directors.

Masswill Manufacturing Co., Ltd. (P.C.).—Capital £1,000. To carry on the business of manufacturers and marketers of ointments for the eradication of all skin ailments; ointments, lotions and medicines for the treatment of migraine, rheumatism and other ailments, toilet goods, etc. Hamish D. Masson, F.R.C.S., Phyllis D. M. Masson, John F. Wilson and Edward J. Graham, directors. R.O.: 18-20 Y Buildings, Adelphi, London, W.C.2.

Eardley & Furnival, Ltd. (P.C. Capital £15,000. To adopt a contra dated December 10, 1946, between Steph Furnival and F. J. North (Retford), L for the purchase of the business of a chem carried on by the said Stephen Furni as "Eardley & Furnival" at 265 Glos Road and 265 Fulwood Road, Sheffie Henri A. J. Merrill and William K. Bair M.P.S., directors. R.O.: 29 Market Squa Retford, Notts.

Chas. Zimmermann & Co., Ltd Messrs. R. F. Tomlinson, R. F. Gillham, W. Jarvis and S. F. Sadler, departmen managers, were elected directors of the co pany as from January 6.

Briggas, Ltd.—Mr. Eric Lincoln been appointed a director in place of M S. Thorafield, who has resigned owing ill-health. Mr. Lincoln joined the co pany as sales manager and was subsequen appointed general manager, and will n combine these duties with the directorsh

Ilford, Ltd.—Net profit, after maki allowance for taxation, depreciation, e for the year ended October 31, 19 amounts to £173,559, against £96,199 1945 adjusted to the same basis. A fi and final dividend is to be paid of 15 cent., less tax, as against 10 per cent. a bonus 2½ per cent. for each of the two p ceding years. The 275,800 £1 ordina shares issued July 1946 at 65s. each ra for this dividend. 500,000 5½ per ce preference shares were redeemed from part of the proceeds of the issue.

Bankruptcy.—Charles Kendred Lle ellyn, 67 Glanmour Road, Uplands, Sw sea, wholesale chemist. The public exa ination was held on January 7 at Swans when the Official Receiver reported t the debtor had been instructed to lodge statement of affairs by November 20, b he had not done so. Debtor stat that he had been ill but his affa were in the hands of an accountant. T Official Receiver added that in the abser of this statement he saw no advantage pursuing the examination and asked t it be adjourned till March. Asked what liabilities were the debtor replied £900, b the Official Receiver intimated that he h been notified of claims amounting £1,300. The examination was adjourne

TOPICAL REFLECTIONS

istration Proposals

'he latest report of the Education Com-tee of the Pharmaceutical Society's ncil (p. 77) raises a question of con-rable importance and of some difficulty. ose who remember the controversy in 9 over the admission of apothecaries' stants to the Register of Chemists and ggists realise that the new suggestions arding fifty-two foreign and "about" nty Polish pharmacists require much ught before deciding on a policy which, e settled, will not be easily revocable. nsel's opinion should be taken, for the lications of whatever course is adopted likely to be far-reaching. On the face t, justice to pharmacists and prospective rmacists, British and foreign alike, will ensured by laying down the same stan-d of qualification by examination for all didates. But the matter is not so simple that. Two complications—to mention more—must be dealt with. The first is erences in educational background. eign candidates may have an admirable sp of the principles and practices of rmacy combined with an extremely nentary knowledge of its relation to the ish way of life. The second complica-n is the adjustment of nationality. alified people from other countries will, theory, be a welcome addition to our n-power; but to what state will they own giance? Possibly the setting up of a reign list" on the analogy of the one the Medical Register may be desirable. t II of the Medical Act, 1886, is worth lying in this connexion, though the re-rements of medicine differ from those harmacy. There seems to be no reason y foreign as well as British qualifications uld not appear in a list of this nature.

e Future of a College

While thinking about qualification let us, h the help of the Establishment Commit-'s report on the same page and your t article on p. 87, take a further look the future. What is "in the wind" h regard to the Society's College? As re is "a further twelve months in which consider to what use the premises [at Clapham Road, London, S.W.4] should imately be put," it seems to be important t members of the Society should be pub-y informed what the Council intends to with the College and with these premises. e chairman of the Committee stated, in the report referred to, that his Committee thought "the University [of London] might possibly want to use the premises in one way or another in connexion with the College. A subsequent remark of the deputy chairman of the Education Committee that the University might take over the premises for the purpose of a hostel does not clarify the situation very much. One wonders how any such action on the part of the University authorities will cause a modification in the internal arrangement of the Society's premises in Brunswick Square. If the University purchases the College and the Clapham Road premises, what agreement or stipulation will be made concerning the space to be set apart in the Brunswick Square building for use by the College under its new management? During the past twenty years or so the expansion of research in the Society's pharmacological laboratories has caused periodical inconvenience to other departments at 17 Bloomsbury Square: no one desires a similar experience at the new headquarters. I am assuming the terms are satisfactory.

Colds and Influenzas

Seldom does a winter pass without news of fresh attacks on the perennial problems of colds and influenzas. (The latter plural is, I think, justifiable, for the character of "flu" seems to vary with each visitation.) Colds we know, and influenzas we know, but what is the difference between a cold and an influenza cold? Your editorial remarks on p. 89, coupled with an article on p. 78 and a news paragraph on p. 92, led me to look through a few *C. & D.* indexes. The references I have found, even for so brief a period as six years, disclose a surprising number of medicaments and several original contributions to discussion of the subject. While we must recognise that influenza is generally too serious a complaint to allow room for experiment, any new line of treatment of the common cold may be worth trying, in case it turns out to be better than existing methods. In a useful summary of accepted knowledge on the subject, Dr. F. Prescott has shown (*C. & D.*, 1940.I.226) that many colds are either bacterial in origin or are due to bacterial infection added to virus infection. I have sometimes thought that there may be an unknown factor, in the blood or elsewhere in the body, responsible for such trouble as colds and chilblains.

Xrayser

DEATHS

ELLIOTT.—Recently, Mr. Bertie Thomas James Elliott, M.P.S., aged sixty-five. Mr. Elliott was for many years in business at 294 London Road, North End, Portsmouth. He began business in 1907, and retired soon after the war of 1914-18, but returned to active business life to manage one of the North End shops of his brother, Mr. H. A. Elliott, M.P.S. In his younger days he was a keen sportsman, enjoying cricket, football and Rugby, and playing Association football for Salisbury Corinthians. He had been a widower for fourteen years.

ENDERBY.—On January 16, Mr. John Edward Enderby, J.P., Prospect House, Horncastle, aged seventy-eight. Mr. Enderby, who qualified as a chemist and druggist in 1889, was for many years in business in the Bull Ring, Horncastle, Lincs. He took a prominent part in local affairs.

EVERETT.—On January 14, Mr. John Garwood Everett, Ph.D., B.Sc., F.R.I.C., M.I.Chem.E., Beben, Ayloffs Walk, Hornchurch, Essex, aged fifty-four. Mr. Everett, who qualified as a pharmacist in 1922, was for some years in retail business in Camberwell, London, S.E.5, but in 1922 took up a post on the technical staff at the factory of May & Baker, Ltd., then at Wandsworth. He remained with the company until his death. Mr. Everett was a son of the late Mr. John Garwood Everett, Ph.C., Bromborough, whose death was notified in these columns in 1946 (*C. & D.*, 1946.II.550). He is survived by his widow and three children. At the cremation, which took place at the City of London Crematorium, Manor Park, London, E.12, on January 17, there were present, in addition to relations, Dr. A. J. Ewins (a director, May & Baker, Ltd.), Dr. A. Wyers, Messrs. F. J. Paxon, A. W. Stupples, J. Christopher, M. P. T. Easton, H. F. Forman and other business colleagues.

FOWLER.—On January 11, after an illness lasting nearly twelve months, Mrs. Florence Amy Fowler, a director of Sturton & Sons, Ltd., chemists, 78 Bridge Street, Peterborough, aged sixty-one. She is survived by her husband, Mr. W. J. Fowler, also a director of the company, and by two sons, Mr. Arthur Cyril Fowler, M.P.S., another director of the company and Mr. Harold William Fowler, B.Pharm., Ph.C., who is with A. de St. Dalmas & Co., Ltd., Leicester. Mrs. Fowler was deeply interested in the St. John Ambulance movement. The funeral service at St. John's Church, Peterborough, was followed by cremat Cambridge. Members of the staff atte

HACKING.—At his home, 13 Scott Morecambe, recently, Mr. Philip Hacking, M.P.S., aged fifty-eight. a period in his native town of Bacup Hacking removed fifteen years ag Blackburn, to commence business o own account at Audley Range. He i vived by his widow.

HORNER.—At West Wimbledon H tal, London, on January 20, Miss Ma Constance Horner, for many years sec and cashier to her brother, Mr. Le Arthur Horner (L. A. Horner & Sons, and oils, 47 The Highway, London,

KINGZETT.—At Karridale, West B Surrey, on January 18, as the result motor accident, Mr. Norman Ki (chairman, Sanitas Co., Ltd.). The fu took place at Pyrford Church on Ja 23; a memorial service will be he West Byfleet on January 29.

LOMAX.—Recently, Mr. William H Lomax, Ardenlea, Mount Avenue, M cambe, Lancs. Mr. Lomax, who qua as a chemist and druggist in 1887 and pharmaceutical chemist in 1893, wa thirty-six years in business in Darwen. was formerly actively associated wit North-east Lancashire Branch of the maceutical Society, and served as Dar representative on the Executive Comm of the Branch. He was also promin associated with Duckworth Street Co gational Church, Darwen.

MCCONNELL.—At his home, Merle Brodick, Isle of Arran, recently, Mr. Sa McConnell, M.P.S. A former provo Johnstone, Mr. McConnell qualified pharmacist in 1904, and was for many in business as a pharmacist in John before he removed to Arran in 1939. McConnell was a freemason of Lodge Ho St. Johnstone, 242. He was a former me of the Rowbank Angling Club and one founder members of the Arran Angling He is survived by his widow.

SMYTH.—At his home at Holland Belfast, recently, Mr. Richard Dill Sr a director of John Clark & Co. (Succes Ltd., pharmaceutical chemists and su suppliers, 8 Donegall Square West, Be Mr. Smyth, one of only five "Cer Assistants to a Pharmaceutical Chem on the Northern Ireland Register, w Past President of the Ulster Branch o Irish Rugby Football Union.

PERSONALITIES

. William James Brown, M.P.S., r-elect of Ludlow, Salop, is in business pharmacist at 1 Bull Ring, Ludlow.

. Maxwell Vites, M.P.S., 200 York , Leeds, 9, has qualified L.R.C.P., C.S.

. S. T. Cowan has been appointed ctor of the National Collection of Type ures of Micro-organisms, Elstree.

. E. Preston, Ph.C., was the guest of our at a dinner given by members of the ield Pharmaceutical War Committee to the winding up of the Committee's work.

. G. S. Roderick (buyer and general ager for Rocke, Tompsitt & Co., Ltd., esale druggists, London) retired on mber 31, 1946, after nearly fifty years' ce.

. Norman Dewey, M.P.S. (home manager, Allen & Hanburys, Ltd.), is epresent the company on the manufacrs' section of the Proprietary Articles de Association.

lderman D. J. Bailey, M.P.S., has appointed a member of the finance general purposes committee of the cashire Prescription Bureau. Mr. ey has been associated with the Bureau e its formation.

. William Sharp, M.P.S., was capped helor of Science in Pharmacy with ours, at a recent graduation ceremony Glasgow University. Mr. Sharp is in rge of the laboratories of Raimes, rk & Co., Ltd., Edinburgh.

r Frederick Wells (managing director he Sanitas Co., Ltd., London), sailed to th Africa on January 9 on a business trip. will be remembered that Sir Frederick, received his knighthood in the New Year ours list, was Senior Sheriff of the City London, 1945-46.

. B. Holden, M.P.S., has been apnted reserve-chairman of a rent tribunal ering Blackburn, Preston, Morecambe, ncaster, Fulwood, Longridge, Walton-Dale, and Preston Rural areas. Mr. lden was a member of Blackburn town ncil from 1921 to 1945.

. W. T. Jarratt (sales manager of iffen & Sons, Ltd.) was presented retly with a grandfather clock by the ectors of the company, in recognition of vices rendered over a period of fifty rs, covering three generations of the iffen family. Mr. Jarratt joined the npany in 1896.

Mr. D. A. Rees, M.P.S., who has been elected to the Council and to the retail section of the Proprietary Articles Trade Association, is a past-president of the South-west London Chemists' Association, and a past-chairman of the West Kent Pharmacists' Association and Branch of the Pharmaceutical Society. He is also a member and a former chairman of the London Pharmaceutical Committee.

Mr. G. E. Nicholson has retired after more than twenty-seven years' continuous service with Boots Pure Drug Co., Ltd. For most of this time he has been interested in the wholesale and export side of the business, and became manager of that department of the company. During the later war years he was engaged in establishing the London office of the department. As already announced (*C. & D.*, January 18, p. 70) his successor as London manager is Mr. E. M. Phillips, M.A., M.P.S.

Mr. John Hutton, M.P.S., and Mrs. Hutton, now living at 10 Suffolk Road, Edinburgh, 9, recently celebrated their golden wedding. They were married at Edinburgh on December 25, 1896. Mr. Hutton qualified as a chemist and druggist on October 4, 1895, and was for forty-six years in business at Brechin, Angus, before his retirement some years ago. Mr. Hutton's eldest son is deputy town clerk of Edinburgh, and his daughter (Mrs. M. F. S. Arnold) was formerly pharmacist at Ashton-under-Lyne Infirmary.

Mr. H. G. Middleton, M.P.S., who was recently elected president for 1947 of the Proprietary Articles Trade Association, has had pharmaceutical experience in many parts of the world. After apprenticeship to the late Mr. W. R. Maude, Pontefract, and later experience in Casewell's pharmacy, Brighton, Mr. Middleton qualified in 1903 and joined the staff of the late Mr. C. B. Allen, Kilburn, London. For a number of years he was with Reynolds & Branson, Ltd., Leeds. In 1913 Mr. Middleton joined the Foster-McClellan Co., and proceeded to the United States and South America, and later to South Africa where he was in charge of the company's factories. He is now European general manager of the company. Mr. Middleton has been a member of the manufacturers' section of the P.A.T.A. council since 1939, and its vice-president and chairman for the past three years. He is also a member of the executive of the Proprietary Association of Great Britain, and of its advertising committee.

TRADE NOTES

Bottles.—An announcement of toilet, perfumery and pharmaceutical bottles for the home trade as well as for export is made in this issue by Consolidated Glass, Ltd., 17 Collingham Gardens, London, S.W.5.

Showcard in Colour.—A showcard, size 9½ x 8½ in., on which may be placed a 1-lb. jar of Edme Autumn Sun extract of malt with cod-liver oil, is offered by the manufacturers, Edme, Ltd., Imperial House, Regent Street, London, W.1.

Again Available.—Dorin rouge is again being distributed in this country in actual Paris packs. Two shades are available: Brunette and framboise. The distributors are Alfred Franks & Bartlett Co., Ltd., Audrey House, Ely Place, London, E.C.1.

Record Fitting Syringes.—A number of advantages claimed for Milward's Vim syringes are listed in an announcement in this issue by the sole British and Empire distributors, Charles F. Thackray, Ltd., The Old Medical School, Park Street, Leeds, 1.

Manufacture in South Africa.—Facilities for the production and marketing in South Africa of British proprietary preparations are offered by Heynes Mathew, Ltd. Inquiries should be sent in the first instance to the company's London representatives Davis & Soper, Ltd., 54 St. Mary Axe, London, E.C.3.

Now Available.—Barnes, Gowland & Co., Ltd., 6 Drapers' Gardens, Throgmorton Avenue, London, E.C.2, state that they are now in a position to supply Bismurelle perfumes in limited quantities. The perfumes are available in four bouquets and the prices and terms are given on another page of this issue.

Bonus Offer.—An offer of a "baker's dozen" Evening Glory soapless shampoos is made to chemists who place orders during January with the manufacturers, Carl Mumby (Productions), Ltd., Cleethorpes, Lincs. The product is being advertised nationally in the daily and Sunday Press, and in provincial, weekly and women's publications, etc.

Exhibit of Cosmetics.—It is announced by the promoters of the "Daily Mail" Ideal Exhibition on March 4-29—the first to the held at Olympia, London, since the war—that forty manufacturers have booked space in the Hall of Beauty. The section will be the largest of its kind in the histo of the exhibition. Demonstrations will a feature of the section.

Empties Required.—Scott & Turn Ltd., Andrews House, Newcastle-on-Ty draw attention to the serious position th has resulted from acute shortage of ca in which to dispatch Andrews liver sal and ask the co-operation of chemists returning outers as speedily as possible the company. Instructions on how to r turn the containers were given in a rece announcement.

Non-greasy Massage Cream.—Aspralg balm, introduced by A. R., Ltd., 19 N Wharf Road, King's Cross, London, N. is a non-greasy massage cream containi an accurately determined percentage 4-dihydroxyphenyl-β-methylaminoethan The product is available in display oute of two doz. collapsible tubes, and the tra terms are given on another page of th issue.

Independent Traders in the West.—T December 1946 issue of the "Citize Trader" magazine of the Western Counti group of the Independent Trader Alliance, 26 Broad Street, Bristol, 1, ou lines a scheme of collective advertisin contains reports of branch meetings in th area, and reprints part of an article, " Centenarian Business" with illustration from THE CHEMIST & DRUGGIST (1946. I 403), in which is described the pharmac of Marks & Son, Clevedon, Somerset.

An Old Favourite in Modern Style.— One of the most popular toilet preparation lavender water, is the latest addition to thei post-war series to be marketed by Cot (England), Ltd., 3 Stratford Place, London W.1. It is of traditional fragrance an excellent colour and put up in four sizes i modern stream-lined bottles with whit plastic screw-on caps. The packaging fol lows the attractive style of the company' products. Supplies are available to th home trade under the quota system.

Irrigation Envelopes.—An informativ illustrated booklet has been issued by Irri gation Envelopes, Ltd., Great Northern House, 345 Gray's Inn Road, London W.C.1, for professional circulation. Th booklet, which comprises fifty-four pages describes the use of Bunyan-Stannard irri- gation envelopes in the treatment o wounds, burns and ulcers in various parts of the body, and in special uses such as

treatment of varicose ulcers, and com- nd factures and in skin grafting. A use- ibliography is included.

ntravenous Anaesthetic.—A booklet ribing the properties and applications Intraval-sodium brand of soluble thio- tone (a mixture of 100 parts by weight odium ethyl 1-methyl butyl thiobarbi- te and six parts by weight of exsiccated ium carbonate) has been published by manufacturers, May & Baker, Ltd., genham, Essex. The booklet, which is of nty-four pages and complete with re- nces and details of packings, is available pharmacists on request to the manu- urers.

Distribution Change. — The manufac- rs of "the original" Haarlem oil or ch drops (the Claes Tilly Co., Haarlem, land) apologise for recent delays in ex- ting orders (due to matters beyond their trol) and ask for further indulgence. drops and capsules will shortly be le in the United Kingdom to the original nula of 1695, and distributed in Britain throughout the British Empire and onies direct by the company. In the ntime, overseas and Colonial orders can filled promptly from Holland, and the npany's English director will give details prices on receipt of an inquiry ad- ssed to N. V. Fabriek Van Oprechte arlemmer Olie, Tuinlaan 2-4, Haarlem, lland.

Petroleum Sulphonates. — Modern thods of oil refining have contributed ny outstanding materials to the progress industry, amongst them the sulphonates, v manufactured in this country. The v products have established their useful- s in a number of technological fields, luding emulsification, fat-splitting, and inhibition of corrosion, and their range applicability is widening rapidly. In the ning of petroleum, an integral part of process is the treatment of the oils with phuric acid or oleum. The by-pro- cts resulting from the treatment serve as raw materials from which sulphonated npounds of high value are isolated. The rinsic property of the petroleum sul- onates is that they are highly surface- ive. The products are both stable at nperatures well above 100°C and resistant acids and alkalis. A booklet prepared Petromor, Ltd., St. James's Buildings, Oxford Street, Manchester, 1, pro- les a handy reference to the industrial rposes to which the petroleum sulphon- ates can be applied and gives suggested formulas. Specialist industries may formu- late preparations to suit their own parti- cular requirements. Amongst the many applications are agricultural and horticul- tural sprays, cleansing preparations, insec- ticides and disinfectants. Copies of the booklet may be obtained free on application to the company.

Proprietary Articles Trade Association

Additions to Protected List.—*Pin-Up Cold Perm-Wave, Ltd.* (Agents: *S. Maw, Son & Sons, Ltd.*), Pin-Up cold "perm-wave" outfit, 72s. doz., tax 72s. doz.; inclusive retail price 15s.

Allen & Hanburys, Ltd., Baby powder, Allenbury's, 9s. 6d. doz., tax 1s. 7d. doz., inclusive retail price 1s. 3d.

J. R. Gibbs, Ltd., Gibbs slug and snail exterminator, 1s. 3d., 10s. doz. (exempt from tax).

Alterations.—*Condy & Mitchell* (Distributors: *Savory & Moore, Ltd.*), Condy's crystals, large size, 16s. 8½d. doz., tax 2s. 9½d. doz., i.r.p. 2s. 1d.

Pompeian Co., Ltd. (Distributors: *Prichard & Constance (Mfg.), Ltd.*), beauty powder, 10s. 5d. doz., tax 10s. 5d. doz., i.r.p. 2s. 1½d.; 5s. 7d. doz., tax 5s. 7d. doz., i.r.p. 1s. 2d.; vanishing cream, 5s. 7d. doz., tax 5s. 7d. doz., i.r.p. 1s. 2d.; cold cream, 5s. 7d. doz., tax 5s. 7d. doz., i.r.p. 1s. 2d.

Prichard & Constance (Mfg.), Ltd., Amami liquid shampoo (no stocks for home trade), 5s. 7½d. doz., tax 1s. 10½d. doz., i.r.p. 9½d. Amami nail-varnish (except nail stones), 6s. doz., tax 6s. doz., i.r.p. 1s. 3d.; Other Amami items (excluding Amami powder shampoos), 5s. 7d. doz., tax 5s. 7d. doz., i.r.p. 1s. 2d.; Amami wave set, 12s. 7d. doz., tax 12s. 7d. doz., i.r.p. 2s. 7d.

Stemco, Ltd., Flit handsprayers, 3s. 2d., 27s. 10d. doz.

Allen & Hanburys, Ltd., Dextrin maltose, 1-lb., 3s. 6d., 32s. doz.; 4-lb., 11s. 6d. 105s. doz. (exempt from tax). Rutin tablets, 100's, 51s. doz., tax 8s. 6d. doz., i.r.p. 76s. 6d.

Glaxo Laboratories, Ltd., Flavogel, 1-oz. tubes, 13s. 6d. doz., tax 2s. 3d. doz., i.r.p. 1s. 8d.; two doz. at 12s. doz.

Luma Products, Ltd., Luma '96' bath salts, 22s. doz., tax 22s. doz., i.r.p. 4s. 6d.

Correction. — *Norgine Pharmaceutical Products (London), Ltd.*, Normacol, 2-oz., i.r.p. 1s. 11½d.; 16-oz., i.r.p. 12s. 11d.

BUSINESS CHANGES

A. R., Ltd. have removed their offices and warehouse to 19 New Wharf Road, King's Cross, London, N.1.

Rossiters Pharmacies, Ltd., 2 Brampton Street, Tiverton, Devon, have opened a branch pharmacy at 31 Fore Street, Wellington, Somerset.

Mr. H. Long, M.P.S., D.Opt., has been appointed superintendent chemist and manager of Bristol Co-operative Pharmacies, Ltd.

Pigalle (International), Ltd., Avenue Close, Willesden, London, N.W.2, have appointed Mr. H. Vizard Robinson sales manager.

Richard Daniel & Son, Ltd., Derby, have acquired the business of George Wood & Co., wholesale druggists, Grosvenor Street, Ashton-under-Lyne.

Matthews & Wilson, Ltd. 6 Cole Street, London, S.E.1, have appointed Mr. A. Downie, Ph.C., works chemist and Mr. R. J. Tucker, B.Pharm, Ph.C., works manager.

Mr. P. C. Gondos, M.C., managing director of A. Revai & Co., Ltd., chemical merchants, 7-8 Idol Lane, London, E.C.3, is carrying on the company with the assistance of the executives.

Optrex, Ltd., have appointed Mr. J. Justin Dunning, L.P.S.I., as their representative in Northern Ireland and Eire as from February 1. Mr. Dunning will also act as representative for the associated company, Perivale Laboratories, Ltd.

Mr. E. C. Sleep, M.P.S., has acquired the pharmacy at 240 Chichester Road, North End, Portsmouth, formerly carried on by Mr. W. E. Bown. Mr. Sleep is retaining his original pharmacy at 52 Gladys Avenue, North End, Portsmouth.

LEGAL REPORT

Pharmacy Act Fine.—At Rochdale, Lancs, borough magistrates' court on January 15, Edith Chatterton, herbalist, 34 St. Mary's Gate, Rochdale, was summoned for unlawfully selling by retail a packet of tablets containing ephedrine, contrary to the Pharmacy and Poisons Act, 1933, and for selling them in a container not labelled in the prescribed manner. On both summonses she was fined 20s., with £3 3s. costs. Defendant told the magistrates that in 1945 a gentleman came into the shop saying he was being treated for asthma and asked if she had any of t tablets. Having none, she promised to t to get him some. Being told by a lady the shop that there were several places the town where the tablets could be o tained, she gave the lady 10s. to buy quarter doz. packets, and entered t transaction in her purchases book (pr duced). Twice since then the same custom had bought a packet from her but, sin March 1946, she had been left with o packet unsold. She had not made a profit out of the sales, and had not t slightest idea that she was not allowed sell the tablets. The defendant was allow a month in which to pay.

COMING EVENTS

Tuesday, January 28

Durham, Newcastle and Northumberl Branches, Pharmaceutical Society, Pattinso Café, 56 Old Elvet, Durham, at 7.30 p.m. Ph maceutical quiz conducted by Mr. T. Melrose

Wednesday, January 29

Sheffield Branch, Pharmaceutical Socie Metallurgical Club, Sheffield, at 7.45 p.m. I Wrigley (Roche Products, Ltd.) on "La Developments in Vitamin Therapy."

Thursday, January 30

Manchester Pharmaceutical Association, Juni Branch, Manchester Geographical Society's H at 7.30 p.m. Mr. R. F. W. Selman, B.S A.R.P.S., on "Modern Developments in Pho graphy" (illustrated with films and lantern slide

National Association of Women Pharmacis and South-west London Chemists' Assoc tion, Wellcome Research Institution, Eust Road, London, N.W.1, at 7.30 p.m. Dr. Par (clinical research director, Wellcome Foundati Ltd.) on "Serology" followed by showing film: "The Preparation of Diphtheria Antito and Prophylactics."

Chelsea Polytechnic, Manresa Road, Lond S.W.3, at 7.30 p.m. Mr. H. Woodhall, L.I.B.S. on "Surgical Instruments."

Sheffield Section, Chemical Society, Chemis Lecture Theatre, Sheffield University, at 5.30 p. Professor J. B. Speakman, D.Sc., F.R.I.C., "The Structure and Properties of Natural a Synthetic Fibres."

Friday, January 31

Royal Institution, 21 Albemarle Street, Lond W.1, at 8 p.m. Dr. E. K. Rideal, F.R (director, Davy Faraday Research Laboratory) "Thin Films on Water."

St. Andrews and Dundee Section, Chemic Society, Chemistry Department, Univers College, Dundee, at 5 p.m. Dr. W. G. Campb on "Modern Trends in the Utilisation of Wood

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Manchester Branch, Guild of Public Pharm cists is holding its annual dinner and dance at t Grand Hotel, Manchester, on February 18. Tick (£1 1s. each) may be obtained from members the committee.

Liverpool Chemists' Association is holding annual dance at Reeces' Ballroom, Liverpool, 7.30 p.m. on Thursday, February 20. Tick 12s. 6d. each.

BIRMINGHAM ANALYST'S REPORT

e report of the Birmingham city analyst the third quarter of 1946 states that of ety-nine samples of drugs taken, eighteen ved incorrect. A sample of gum acacia tained 19 per cent. water, the B.P. maxim being 15 per cent., 5.8 per cent. mineral tter instead of not more than 5 per cent., l was in powder form, whereas the B.P. uires it to consist of small tears. The ndor stated that he had had it in stock for onsiderable time. He had lump acacia in ck, but found that customers usually eferred the powder as it was more easily solved. He was informed that the lump m must be supplied when gum acacia was ted for. A proprietary eye lotion containing 8 per cent. boric acid and 0.24 per cent. c sulphate was labelled "Collyrium id Boric et Zinc.," a synonym for "Collrium Zinc. Co." of the B.P.C. The composin of the sample did not, however, agree th the requirements of the B.P.C., but with e formula for an article of the same name the National Formulary. According to ction 11 (2b) of the Pharmacy and Medines Act, 1941, the full formula of a medicine, not a B.P. or B.P.C. article, must be given the label. The retailers, when approached, ated that they had relied on the wholesale ealer's warranty. On more recent packs of e preparation the label had been amended give the full formula of the article. No rther action was taken.

Glauber's Salt

A sample of Glauber's salt was found to be nhydrous, and was therefore twice as strong s the B.P. article. The vendor stated that e had bought his stock ready packed in ardboard cartons, and was not aware that had effloresced. He had immediately ithdrawn it from sale.

A sample of glycerin contained a total f 15 per cent. water, a surplus of about 3 per cent. The company concerned was rosecuted, together with the manager. No atisfactory explanation of the presence of the water was given at the hearing of the case, and the company was fined £5. The case against the manager was dismissed on payment of 4s. costs. Another sample of glycerin was found to contain about 4 per cent. water, whereas the B.P. allows a maximum of only 2 per cent. The vendors stated that it was sold exactly as received from the suppliers, who proposed to have an analysis made. The report of the analysis was not yet available. A sample of compound liquorice powder, which should contain 52 per cent. sugar, contained only 37 per cent. The vendor stated that he had bought it three years ago. When he had received a letter of caution he had examined the stock and found it "somewhat damp" and "inclined to be lumpy" and had withdrawn it from sale and ordered a fresh supply. Two samples of Parrish's food were bought from one vendor. The first was deficient in ferrous phosphate content by 22 per cent., but a further sample of the same stock proved to be unobtainable. Six weeks later, another sample contained an excess of 90 per cent. of the same ingredient. This apparently was taken from new stock, but the vendor had informed the inspector that he "would have to make it up." He gave the name of a well known firm of manufacturing chemists as his suppliers, and stated that his stock, nine months old, was now exhausted. The firm in question was communicated with, but denied having sold any Parrish's food to the retailer at the time in question. They had written to the retailer, asking him for a sample of his stock, but he replied that he had none left. The retailer was cautioned.

Parrish's Food

A sample of Parrish's food from another vendor contained only 0.4 per cent. ferrous phosphate, a deficiency of 55 per cent. The remainder of the iron had precipitated as the therapeutically inactive ferric salt. The retailer's stock was six months old, and the remainder was returned to the suppliers.

A sample of white precipitate ointment was found to be made according to the formula of the 1932 B.P. and contained 4.9 per cent. of white precipitate. Instructions were given by the retailing firm to all their branches to remove from sale any ointment not made according to the formula of the Seventh Addendum.

Excess of Zinc Oxide

A sample of zinc ointment contained an excess of 15 per cent. zinc oxide and was made with a base of a mixture of simple and hydrous ointments instead of simple ointment only. The vendor was inclined to blame his wholesale dealer for the excess as he stated that the tins were cold-filled from stock with a knife. It was possible that an assistant had refilled a jar that had previously contained the Sixth Addendum ointment, having a hydrous ointment base, with new stock made according to the Seventh Addendum having a simple ointment base, without first washing out the jar.

P.A.T.A. COUNCIL MEETING

THE quarterly meeting of the Council of the P.A.T.A. was held on January 9, the president (Mr. E. Skues) in the chair. THE PRESIDENT welcomed the new members of the Council, Messrs. D. A. Rees and F. G. Wells (retail section), and Mr. N. Dewey (Allen & Hanburys, Ltd.) (manufacturers' section). THE PRESIDENT moved, and the Council unanimously approved, that a message of thanks for their services as members of the manufacturers' section of the Council should be sent to Condy & Mitchell, Ltd., and to Messrs. Stearn and Yeates, who had retired from the retail section. Warm appreciation of the services of Mr. R. Peck, (1945 president)—lost through automatic retirement—was expressed.

Glyn-Jones Memorial Fund

THE PRESIDENT referred to the gratifying response made by the members to the appeal for the Glyn-Jones memorial fund. MR. SKUES said he was sure the trustees of the fund would appreciate the contributions that had been received, particularly a donation of £1,000 forwarded by Sir Stanley Holmes on behalf of the companies in the Beecham Group.

The Council received a report of the joint deputation's interview with the Central Price Regulation Committee, when matters concerning retailers' and wholesalers' discounts were discussed. Additional information was to be obtained and submitted to the Committee. A communication from the Central Committee regarding recognition of P.A.T.A. list prices as "permitted prices" under the Prices of Goods Act and to the maintenance (subject to the conditions set out) of retail percentage discounts was considered (see below).

Election of President

MR. BOHN, on behalf of the manufacturers' section, nominated Mr. H. G. Middleton (chairman, manufacturers' section) as *President* for 1947. The motion was seconded by COLONEL WATSON, supported by Messrs. T. MARNS and S. W. HAGUE, and carried unanimously. MR. MIDDLETON then took the chair, and expressed his thanks for the honour conferred upon him. He was, he said following a succession of presidents who had worthily and impartially upheld the dignity of the office and he would endeavour to follow their example. He then moved that a vote of thanks be accorded to the retiring president, Mr. Skues, who had with such marked success and outstanding ability discharge the presidential duties during a particularl notable year in the Association's histor In seconding the motion, which was passe with acclamation, MESSRS. F. J. SMITH W. W. KNOTT and S. W. HAGUE adde their tributes. MR. SKUES expressed hi thanks for the kind references made by hi colleagues, and for the support and en couragement he had received from ther during his year of office.

New Officers

The following Officers were also elected *Vice-presidents:* Messrs. E. C. Pearc (manufacturers), N. E. Forster (Wholesale) and S. W. Hague (retail); *Treasurer:* M L. Barclay; *Executive Committee:* Messr J. D. Bohn, R. G. Dyas and P. G. Hur (manufacturers), F. J. Smith, S. Watso and P. Lushington (wholesalers), W. S Howells, T. Marns, H. H. Marshall an J. E. Goodall (retailers), with, *ex offici* the president, immediate past presiden vice-presidents and treasurer, and the chai man of the P.A.T.A. Trust Co., Ltd. (M C. H. Ratcliffe).

Surplus Government Stores

The procedure adopted by the Ministr of Supply, Directorate of Disposals (Stores in connexion with the disposal of surplu proprietary toilet articles, particularly thos of American origin supplied originally fo the use of United States Service personn stationed in Britain, was discussed. Th view of the Association's solicitor regardin the legal position of the owners of Englis trade mark rights concerning certain pr ducts offered for disposal was receive THE SECRETARY reported that the Dire torate had arranged for all such surplu stores to be handled by a member of th wholesale section of Association. Assuranc had been received that all practicable ste would be taken to avoid prejudicing th interests of the manufacturers or the di tributing trade. It was agreed that th position should be kept under review.

The Council discussed various aspects purchase tax and decided the lines o which their views and suggestions shoul be put on record.

J. J. Groves & Son, Belfast, were electe to membership of the wholesale section.

The quarterly report on price-mainte ance showed that during the period Januar to December, 1946, approximately 1,99 calls and inspections had been made by th

.T.A. representatives at retail shops, in-ding co-operative societies' branches. 80 individual test purchases had been ained from the shops visited; in only hteen instances had the tests provided dence of price-cutting. The investiga-ns had covered two societies in the etropolitan area, and several provincial ntres. During the twelve months ended cember 31, 1946, 210 names had been noved from the stop list on completion the appropriate agreement. The Coun-also dealt with matters relating to re-ions in the protected list prices.

emorandum on Retail Discounts

The memorandum on the maintenance retail discounts on increased prices as fected by the Prices of Goods Acts, re-rred to above, reads as follows:—

"The Council of the P.A.T.A. have been tified that the Central Price Regulation ommittee will continue to accept prices blished in the P.A.T.A. List as "per-itted prices," on the understanding that, fore such prices are published, the manu-cturers will give to the Association an ndertaking that any increases involved are lculated in accordance with the terms of e Prices of Goods Act. The Central Com-ittee point out that, in giving this under-king, manufacturers are expected to bear mind the arrangement regarding reduc-on of retail discounts when manufacturers' nd retailers' selling prices are increased, hich is set out in a memorandum entitled Prices of Goods Acts: Its Application to ncreases in Prices of P.A.T.A. Articles," sued in April 1941 (see below).

rice-Protected Toilet Preparations

With regard, however, to price increases y P.A.T.A. manufacturers of toilet pre-arations, subject to observance of the con-itions referred to above, no exception will e taken by the Central Committee to the aintenance of retail percentage discounts t the pre-war figure where:—

(a) the retail buying price, excluding purchase tax, is not more than 33⅓ per cent. higher than it was on August 21, 1939, and the article will not, as a result of the increase, retail at a figure of more than 11½d. excluding purchase tax, *or*

(b) the retail buying price is not more than 25 per cent. higher than it was on August 21, 1939, and the article will not, as a result of the increase, retail at more than 1s. 5½d., excluding purchase tax, *or*

(c) the retail buying price is not more than 20 per cent. higher than it was on August 21, 1939, and the article will retail at 1s. 6d. or more, excluding purchase tax.

It is important to note that whereas in June 1946 the Central Price Regulation Committee intimated that no exception would be taken to the maintenance of an existing discount where the increased retail buying price of a P.A.T.A. article (whether medicinal, toilet, foods, etc.) was not more than 20 per cent. higher than in August 1939, the concession set out in (a) and (b) above applies to P.A.T.A. toilet preparations only, and not to medicines, foods, etc.

A memorandum issued by the P.A.T.A. in April 1941 included the following:—

The manufacturer of a proprietary article who finds it necessary to increase the price to the trade of that article must ascertain his total costs for the article in 1939 and then deduct those costs from the price he charged to the trade; he then works out his total current costs and adds to the resultant figure the same profit margin he previously obtained. For proprietary price-maintained goods included in the P.A.T.A. list it has always been the custom for the manufacturers of such goods to fix the price charged (a) by the wholesaler to the retailer and (b) by the retailer to the public. To enable this procedure to be continued without possible breach of the Prices of Goods Act, the Central Price Regulation Committee has agreed that costs and selling prices may be calculated on the basis of an average wholesaler and an average retailer.

A PHARMACIST'S ANTHOLOGY—1

"I know she had the spinal mergeetis months before there was any other case about," observed Mrs. Crane, with satisfaction.

"An' the new throat troubles, all of 'em," agreed Sarah Ellen; "an' has made trial of all the best patent medicines, an' could tell you their merits as no one else could in this vicinity. She never was one that depended on herbs alone, though she considered 'em extremely useful in some cases. Everybody has their hern, as we know, but I'm free to say that Sister Barsett sometimes done everything she could to kill herself with such rovin' ways o' dosin'. She must see it now she's gone an' can't stuff down no more invigorators."

(From "The Passing of Sister Barsett," by Sarah Orne Jewett.)

PHARMACEUTICAL SOCIETY OF IRELAND

January Council Meeting

THE January meeting of the Council of the Pharmaceutical Society of Ireland was held in Dublin on January 14, Mr. J. K. Whelehan (president) in the chair. Also present were Messrs. P. A. Brady, J. Gleeson, T. C. Scott, P. F. McGrath, F. X. Meagher, F. Loughman, T.D., P. Brooke-Kelly. J. P. Kissane, P. Fullam, H. P. Corrigan, M. Power, G. C. O'Neill, P. C. Cahill, J. A. O'Rourke, and C. J. Cremen.

The first business was the appointment of visitors for the forthcoming examinations. Greetings were received from the Nuncio Apostolic, the Archbishop of Dublin, President of *Hospitalité de Notre Dame de Lourdes,* the Minister for Local Government, the Pharmaceutical Society of Great Britain, the Pharmaceutical Society of Northern Ireland, the Pharmaceutical Society of Victoria, Mr. Charles A. Gillespie, and from the representative council of registered pharmaceutical students of Ireland.

Recent Prosecutions

The report of the law officer showed that, at Tinahely, co. Wicklow, a defendant had pleaded guilty and been fined £2 on a summons under section 2 of the Poisons Act for not making the proper entry. Another defendant, who had pleaded guilty, had been fined £5 on a summons under section 30 and £1 on a summons under section 2 of the Poisons Act. A third defendant had pleaded guilty and had been fined £5 on a summons under section 30 of the Pharmacy Act and 5s. on a summons under section 2 of the Poisons Act. The justice had not allowed costs as he considered that the fines were heavy. Defendants at Glenamaddy had pleaded guilty and given an undertaking in open court that they would not, under any circumstances, continue the sale of poison. The justice imposed a fine of 10s. on each of two summonses, with £2 2s. costs. On a summons under section 17, the defendant company had been found guilty and fined £5 with £4 4s. costs and £3 3s. witnesses' expenses. A summons against another defendant had been dismissed under the Probation Act

Amended Regulations

A letter was read from the Minister for Justice approving of the following changes in the Regulations: "Amend Order of April 15, 1946, by substituting four guineas for two-and-a-half guineas; amend Regulation V of the Licence Examination Regulations (Book of Acts and Regulations, p. 47) by deleting the words 'five guineas' and inserting instead the words 'eight guineas'; delete Regulations IX of the Licence Examination Regulations (Book of Acts and Regulations, p. 76); amend Regulation III of the Assistants' Examination Regulations (Book of Acts and Regulations, p. 69) by deleting the words 'two guineas' in line two and inserting instead the words 'three guineas.'" The change came into effect on December 1, 1946.

Preliminary registrations were granted in respect of the following applicants: Kevin McArdle, Joseph Benedict Dowdall, Ellen Aherne, Mary Brigid Aherne, Anne Josephine Corrigan, Thomas Francis Fitzmaurice, Finola Mary Keegan, Ethne Mary Marmion, Catherine Anne Walsh, Peter William Corish, Mary Francis Teresa McIvor, William O'Connell and Ellen Quirke.

Applications for registration as pharmaceutical chemists were granted in respect of the following: John Joseph Brook, L.A.H., Owen Kevin O'Malley, L.A.H., John Joseph McCarthy, L.A.H., Mary Auderiah Conyngham, L.A.H., and William Bannan, L.A.H.

The reports of the Law, House, School and Certificates and Declarations Committees were submitted and approved.

The examiners to the pre-registration examination reported that of the forty-four entered, twenty-three had passed.

THE REGISTRAR (Mr. J. J. Kerr) reported on the deaths of M. J. O'Callaghan, M.P.S.I., John Vaughan, L.P.S.I., J. Kilpatrick, L.P.S.I., and Elizabeth Anne Adams, R.D.

Changes of Address

The following changes of address were notified: Mr. J. D. O'Sullivan, M.P.S.I., to 1 Sandford Road, Ranelagh, Dublin; Mr. J. J. C. Culbert, L.P.S.I., to 172 North Road, Belfast; Mr. J. A. Deakin, L.P.S.I., to The Square, Drumcollogher, co. Limerick; Mr. T. C. Frawley, L.P.S.I., to 3 Kileely Villas, New Road, Thomondgate, Limerick; Mr. J. P. Lamphier, L.P.S.I., to Killenaule, co. Tipperary; Mr. A. McClure, L.P.S.I., to Braeside, Newry; Mr. T. J. McDermott, to 408 Harold's Cross Road, Dublin; Mr. H. A. Gribben, R.D., to Strand Road, Toome Bridge, co. Antrim

W. G. McCreight, R.D., to 343 Castlech Road, Belfast; Mr. J. S. Madill, ., to Ballyloughlan, Ballymena, co. rim; Mr. H. McElhinney, to Rathan, co. Kildare; Mr. J. W. Hogan, P.S.I., to 25 Church Street, Athlone.

w Members

The following were elected members of Society: The Misses A. M. Buttimer B. O'Donovan, Messrs. H. Cashell, V. D. Doyle, C. J. O'Leary, M. Spittle and Mrs. M. Taylor. Nominations for membership were passed on behalf of the following: Mr. J. J. Corbett, Medical Hall, Mitchelstown, co. Cork; Miss E. C. Farry, Mount Street, Mullingar; and Dr. O. K. O'Malley, 30 Haddon Road, Clontarf, Dublin.

A meeting of the Benevolent Fund Committee was held at the close of the council meeting.

MODERN TREATMENT OF EYE DISEASES

a meeting of the London Branch of the ild of Public Pharmacists on January 17, . J. R. Elliot, Ph.C., in the chair, MAJOR MINTON spoke on "Sulphonamides and icillin in the Treatment of Eye Diseases."

ajor Minton described how the use of phonamides in purulent conjunctivitis d trachoma in the Middle East during the r had proved a great improvement on the thods previously in use, producing icker healing and reducing the number complications. In Ceylon, where sulphatamide had not been available, the plication of a 40 per cent. sulphanilamide ste direct to the eye had produced good sults. Later a paste containing sulphalamide 20 per cent., cod liver oil 40 per nt. and soft paraffin 40 per cent. had come the standard treatment for mucorulent conjunctivitis.

Penicillin, as later it became available, d been applied locally for purulent conctivitis and usually cleared up the contion in two or three days. Penicillin ven systemically did not easily penetrate e blood-eye barrier, so that bactericidal oncentrations were not achieved in the ssues of the eye. Penicillin was therefore jected directly under the conjunctiva, fter anæsthetisation, and an effective concntration of penicillin in the aqueous and itreous achieved. Using white, crystalne penicillin, concentrations of 100,000 nits in 0.5 mil sterile water could safely be sed. An ointment containing 100,00 units f white penicillin per gm. in a base conaining equal parts of liquid and soft parafin, achieved good penetration. Eucerin L.M. was another good base; Lanette wax was not suitable owing to its tendency to turn acid. For intra-ocular infections, penicillin given systemically was combined with local injection or inunction of penicillin, sulphonamides being given orally.

Major Minton referred to patients on whom the use of penicillin had caused a red rash, while inhalations containing penicillin had been known to give rise to asthma. A pharmacist had acquired asthma through dispensing penicillin preparations, and instances had been reported of allergy among the staff in penicillin manufacturing plants.

Major Minton then answered the following questions:—

DR. H. DAVIS (University College Hospital): *What strength of sulphacetamide eye drops should the B.P.C. specify to be dispensed when no strength was indicated by the prescriber?* For certain virus infections which responded better to sulphonamides than to penicillin, 30 per cent. drops or even solid sulphacetamide might be used; but as a general prophylactic or as a *placebo,* 10 per cent. was the most suitable strength.

Should penicillin eye drops be dispensed in isotonic saline? No, sterile water was quite suitable.

What strength of penicillin eye ointment is best for routine use? 1,000 or 2,000 units per gm. was usual for external eye infections; stronger ointments might cause irritation or dermatitis. Ointments containing up to even 100,000 units per gm. had been used, but for any ointment stronger than 2,000 units per gm., crystalline white penicillin should be used.

Are reactions to penicillin caused by allergy or by previous sensitisation? Some patients showed an allergic reaction within twelve hours of their first treatment with penicillin; others exhibited an acquired allergy due to previous sensitisation. One patient had been desensitised by the oral administration of penicillin.

Should penicillin eye drops be instilled every five minutes? In serious infections 2,500-5,000 units might need to be instilled every half hour; for milder infections it was sufficient to instil drops three times a day.

Is Eucerin alone a better base than a hydrous base of Eucerin 75 per cent., water 25 per cent.? The anhydrous base was preferable, the ointment prepared with it being virtually as stable as dry penicillin.

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OL. CXLVII JANUARY 25, 1947 NO. 3494

Achievements and Plans of the Joint Committee

A STATEMENT issued by the Joint Committee on a National Pharmaceutical Service, nd given in full in this issue (p. 119), will e closely scrutinised by members of the harmaceutical Society, since it touches so losely their future welfare and development as a profession. We feel sure that the rief review of the Committee's purposes nd actions since its establishment will be ead with general approval, for the Committee has, despite defects in its composition, to which we have frequently drawn ttention, given effect to the expressed vishes of its electorate, which it has been at ains to consult at every important new evelopment in the synthesis of a national ealth service, now crystallised in the ational Health Service Act, 1946.

The passing of the Act is not, however, he end of the matter, and in fact the Committee must take on a new lease of life—in ome respects more important than the rst—if the fundamental question of terms, s well as certain details of structure of the ervice, are to be satisfactorily decided. The immediate step to be taken by the Committee in approaching the subject of emuneration is in our view the correct one, nd we hope and believe that it will reeive the ready co-operation from all harmacists that is absolutely indispensable f success is to be achieved. It is, in brief, o accumulate a sufficient basis of facts bout the running of the businesses of those vho have been pharmacist contractors under the National Health Insurance Acts, as well as other relevant material from whatever section of the craft may have a contribution to make. In the first place 2,000 pharmacists selected by the Committee are to be approached. No doubt the selection will be judiciously carried out to provide a representative cross-section, but as an additional safeguard against any vital factor being overlooked, others not approached are being invited to help. Exactly what is intended by the co-operation of the latter group is not specified, but it is up to any member who feels that he has any facts at his disposal which should be in the possession of the Joint Committee to see that they are brought to its notice. The selected 2,000 should bear in mind, moreover, that they are being asked to take action on behalf of numerous colleagues as well as in their own interest, and that failure to complete the questionnaire may be prejudicial to the future of all. We hope none of the questionnaires will be left uncompleted.

On the structure of the local pharmaceutical committees, the Joint Committee takes the view that, initially, the existing Pharmaceutical Committees will be adequate, but that later a broader basis of composition will be needed. No doubt what is at the back of its mind is the inclusion, at a later date, of pharmacists employed at health centres, and we think none will raise objection to this policy. Detailed proposals will follow.

It is a matter for satisfaction, and one on which the Committee is specially to be congratulated, that so large a measure of agreement has been reached with the medical profession on the arrangements for rural areas and on the method of preparing a formulary. It is true the Committee was against a prescribers' formulary, and the doctors apparently in favour of it. But, assuming the inevitability of such a publication, it is bound to be the better for the inclusion of pharmacists on the compiling authority.

It is now for the members of the Society in general to show that they can respond promptly and fully to the enlightened lead given by the Joint Committee. There is then every hope of united action.

A Dangerous (Drug) Dilemma

CHANGES in poison law have frequently far-reaching and unforseen effects but possibly none hitherto has been so drastic as the Dangerous Drugs (Application) Order, 1946 (S.R. & O., 1946, No. 2018) (*see C. & D.*, 1946.II.764). This Order, among other provisions, has the effect of making linseed, liquorice and chlorodyne lozenges (trochisci lini, glycyrrhizæ et chlorodyni, B.P.C., 1923) a Dangerous Drug. The Order extends Part III of the Dangerous Drugs Act, 1920, to "any preparation, not being a preparation capable of external use only, made from extract or tincture of Indian hemp." Though each lozenge contains only the equivalent of gr. 1/500 of extract of Indian hemp (i.e., five hundred lozenges constitute a one-grain (maximum) dose of the extract), it must thus be deemed a Dangerous Drug.

The Order will almost inevitably result in "genuine" linseed, liquorice and chlorodyne lozenges being made with cannabis-free chlorodyne. For this purpose the old-fashioned and ever popular tinct. chlorof. et morph., B.P., 1885, is most suitable, especially as that galenical is continued with official status as chlorodyne, B.P.C. A content of three minims per lozenge gives a morphine content approximately that of the 1923 Codex product. Poison law requirements are adequately fulfilled by stating on the label the amount of poison present in each lozenge, either as morphine (gr. 1/160) or chlorodyne, B.P.C. (3 minims). But how should the preparation be labelled? "Linseed, liquorice and chlorodyne lozenges" is a synonym for the B.P.C., 1923, preparation and, subject to test action, would probably be so regarded in the courts. The lozenges were omitted from the 1934 Codex, at the same time as chlorodyne was made the synonym for tinct. chlorof. et morph., B.P., 1885.

An anomaly is that the vast bulk of linseed, liquorice and chlorodyne lozenges are sold to the public, when they are available at all, as confectionery or "sweets," and the question arises whether these "sine morph." confections are legally entitled to include the designation "chlorodyne" in their description, since the term typifies a medicine.

Swiss Tour

No less than eight members of the Council of the Pharmaceutical Society (seven named and one still to be made known) have been appointed to attend the first post-war conference of the *Fédération Internationale Pharmaceutique* to be held in Zurich, Switzerland, in August 1947 (see *C. & D.*, January 18, p. 76). It is fitting that Britain should be well represented upon so august a body on so auspicious an occasion, but it may be considered desirable as a preliminary that the members of this "eight" (one more than a quorum of the Council) should give some assurance to members that, in the present parlous state of its finances, the costs of the outing will not fall upon the Society's exchequer. Presumably—since he is one of the champions—the treasurer is satisfied that nothing is being done to make the Society any worse off than it is at present.

To Give or Get?

Looking at the seven names, one may be forgiven some speculation whether the representatives of British pharmacy are going in order to profit by the discussions or in order to contribute to them. So newly revived a body as the Federation can hardly be in a position to demonstrate to the British treasurer how to build up a strong financial background for his Society, yet, on the other hand, it is hardly likely to want to base its own finances on the precarious model of the Pharmaceutical Society of Great Britain. There are, of course, members of the deputation who, venerable age entitles them to be heard with respect, and others who carry the authority that goes with office.

One wonders, too, whether there would have been such a ready response if the meeting had been called in some other country than Switzerland. It may be significant that so large a group is travelling without secretarial assistance. Is this a safeguard against any possibility that the delegation should choose to regard itself as a quorum of the Council? With competing Council meetings, one in Zurich and one in London, precedence would reside, we may suppose, with the stay-at-homes in possession of the secretary and the records.

JOINT COMMITTEE ON A NATIONAL PHARMACEUTICAL SERVICE

Issue of a Statement on Policy

'HE following statement has been issued to ıe Press by the Joint Committee on a 'ational Pharmaceutical Service:—

The Joint Committee have continued the olicy followed by the Pharmaceutical ociety and the National Pharmaceutical Jnion since the appointment of the Bevridge Committee in 1941 of endeavouring romptly and effectively to represent the iews of pharmacy to the authorities at ach step in the development of the national ealth service. With the passing of the 'ational Health Service Act the broad prinıples of the new service have been defined, nd the basis provided on which a first-lass pharmaceutical service can be built, ut there are many matters to be decided efore the scheme is complete and ready for peration. Among the most important of hese is the question of terms and conditions f service, and in order to provide the Comıittee with the necessary data for the prearation of their case, an extensive inquiry to be undertaken into the economics of ispensing in pharmacies. A questionnaire as been drawn up, and the co-operation of he proprietors of some 2,000 pharmacies elected to form a representative sample ill shortly be invited. Not only the pharmcists who will be invited to furnish the esired information but also any other harmacists who may be asked to assist to nake the inquiry a success, are urged to nterest themselves in the matter and to coperate fully with the Committee in this mportant work. Full information on the ubject will be made public shortly.

'harmacists on Executive Councils

The Ministry of Health have been in ommunication with the Committee regardng the establishment of the Executive Councils which will replace the existing nsurance Committees in each county and ounty borough, and each of which will nclude two pharmacists. The establishnent of these Councils is desired at an early late, and the Ministry have asked for the iews of the Joint Committee on the constiution of the local pharmaceutical committees to be recognised by the Minister under Section 32 of the Act, since it is such comnittees which will appoint the pharmacist nembers of Executive Councils.

It should be noted that the Minister is ree to recognise as a pharmaceutical committee for the purpose of the Act any local committee which he is satisfied is representative of persons providing pharmaceutical services in the area, and hence the constitution of these committees, unlike that of the existing Pharmaceutical Committees under the National Health Insurance scheme, which are limited to persons elected by contractors, is a matter for negotiation. The Joint Committee have informed the Ministry that in general they consider the existing Pharmaceutical Committees sufficiently representative to appoint the pharmacist members of Executive Councils at this stage, but that the wider functions and organisation of the national health service will make it advisable to reconstitute these committees on a broader basis, and in due course the Committee will present their proposals on the matter.

A number of matters connected with the national health service have been discussed with the British Medical Association, in particular the arrangements for dispensing in rural areas, and the method of producing any formulary which may be required. The Joint Committee do not favour the use of a prescribers' formulary but consider that, if one is to be used, it should be based upon the British Pharmaceutical Codex Formulary and prepared by a committee representing the medical and pharmaceutical professions. The Insurance Acts Committee of the British Medical Association have intimated their view that such a formulary is needed and agree with the Joint Committee as to its basis and method of preparation.

Given Away With a Bottle of Orange Juice.—As a second step in an effort to increase the percentage of mothers who are taking advantage of the Ministry of Food's orange juice for children, Warrington Food Control officials are planning a baby show. The first part was a toy scheme just before Christmas, when, with each bottle of orange juice collected from the welfare distribution centre, mothers received a numbered ticket; to the winner went toys made by the Food Office staff in their spare time. In the new scheme, mothers are being asked, at each of the twenty-five distribution centres in and around Warrington, to hand in photographs of their babies. The best baby at each centre will receive a toy pram.

ULSTER CHEMISTS' ASSOCIATION

Mr. R. Gibson (president) was in the chair at a meeting of the Executive Committee of the Ulster Chemists' Association, held in Belfast on January 7. Votes of sympathy with the relatives of the late Mr. John Montgomery and the late Mr. R. D. Smyth were passed.

Mr. J. McClenahan (secretary) said that simplified arrangements for the distribution of groundnut oil to chemists had been completed with the Ministry of Agriculture. It was agreed that the Association should arrange for a better distribution of the meagre supplies of olive oil at present available. Mr. James McDowell reported that he had been asked by the Ministry of Health and Local Government to state whether any vacancies existed on the various Pharmacy Service and Joint Services Committees. He said he was convening a meeting of the local Pharmacy Committee to fill any vacancies. The Secretary said he had been advised by the Ministry of Health that the representation of the Ulster Chemists' Association on the National Health Insurance Local Benefit Council was incomplete. Messrs. J. C. Culbert and W. J. Hardy, J.P., did not wish to continue as the Association's representatives, he added. It was decided to nominate Mr. A. E. Dickson, Londonderry, with Messrs. A. T. Hardy and P. R. W. Shinner, Belfast, to fill the vacancies. It was reported that part of the new price list had been sent to the printers and every effort was being made to make it available soon.

The Secretary reported that a C.F. manufacturer had complained that Northern Ireland chemists and wholesalers did not make efforts to obtain his goods which were consistently advertised in the area. The secretary was instructed to remind members that, as part of their contribution to C.F. policy, they should make every effort to obtain the goods of C.F. manufacturers on receiving inquiries from the public. A provincial association, it was also reported, was concerned at the opening of two drug stores by former pharmacy assistants who had no qualification and had served no apprenticeship. It was agreed that C.F. wholesalers in Northern Ireland should be asked to discourage such new businesses by withholding supplies of goods. It was noted that Northern Ireland wholesalers had always carried out their C.F. obligations loyally by restricting supplies of their products to chemists.

The following were elected to membership: Messrs. W. J. Beattie, 100 Peter's Hill, Belfast (successor to Mr. W. F. Thornton) and Mr. Hugh Donaghey, 8 Ballymoney Street, Ballymena (new business). The secretary was requested to remind members that schedule IV poisons and penicillin products should be supplied only against prescriptions. It was reported that the subcommittee appointed to prepare price tables for schedule IV poisons had met and that its work was well in hand.

SCOTTISH SALARY SCALES

The following annual salary scales for hospital pharmacists in Scotland have been agreed upon by the National Joint Committee for Staffs in Health Services (Scotland). The new rates are retrospective to August 1, 1946.

Chief Pharmacists

Number of Assistants	Men	Women
One	£455–555	£415–515
Two	£475–575	£435–535
Three	£495–595	£455–555
Four or five	£515–615	£475–575
Six and over	£535–635	£495–595

Pharmacists, Single-handed

Men		Women	
Commencing	Maximum	Commencing	Maximum
£390–455	£465–520	£350–405	£425–480

Assistants

Category	Men	Women
Deputy chief pharmacist (staff six or more)	£395–495	£355–455
Senior assistant (staff three to five)	£385–460	£350–430
Assistants	£340–420	£305–380
Unqualified assistants	£220–300	£220–300

The rates for apprentices are:—First year, £75; second year, £90; third year £120.

RECENT DEVELOPMENTS IN CHROMATOGRAPHY

Abstract of a paper read by Mr. F. A. Robinson, M.Sc. (Tech.), LL.B., F.R.I.C. (Distillers' Co., Ltd.), before an Evening Meeting of the Pharmaceutical Society on January 9.

IN chromatography, a substance in solution is poured on to a fixed bed or column of an adsorbent, without disturbing the bed. If the bed is of sufficient depth, the substances present in solution are adsorbed at the top. On washing with a suitable solvent ("development") the individual components of the mixture are separated from one another, those with a high affinity for the adsorbent remaining at the top, and those less readily adsorbed gradually passing down the column to form successive bands. The separate zones are usually quite narrow and separated from one another by clean adsorbent. Separation into bands or zones is the characteristic feature of the chromatographic procedure, whereby it is distinguished from ordinary adsorption, in which a mixture of substances is distributed more or less homogeneously over the surface of the adsorbent. The method was devised in 1906 by a Russian botanist called Tswett, but his work went virtually unnoticed until it was rediscovered about 1931 by Kuhn and his colleagues in Germany.

Initially, chromatography was used for the separation of coloured substances. Under Tswett's original procedure ("classical" chromatography), a solution under investigation is poured on to a column of adsorbent. The "chromatogram" is developed by washing with large volumes of a solvent removed from the tube, according to the layers formed, and each separate portion "eluted" by treatment with a suitable solvent. Elution is defined as the process of separating the adsorbed substance from the adsorbent. With coloured substances, the final chromatogram exhibits a series of coloured bands of varying thickness, each separated by a white zone of clean adsorbent. Generally, each band contains one substance only. Chromatography is now used extensively also for separating colourless substances, for which purpose some method must be used for detecting the position occupied by each component of the mixture, One simple method is examination of the column in ultra-violet light, which often reveals the presence of fluorescent zones sufficiently distinctive to enable the column to be cut, as in the "classical" procedure. Another method is to extrude the column and streak it with a reagent that gives a characteristic colour with the constituent concerned (e.g. antimony trichloride giving blue with vitamin A). A third method sometimes used is deliberately to add a dyestuff having the same adsoprtion affinity as the substance to be isolated—a procedure used to indicate the position of the vitamin D_3 band in separating the vitamin from fish-liver oil.

Comparative Adsorption Capacity

Many substances are now available for use as adsorbents in chromatography. Some are strong; others adsorb only compounds that have a relatively high adsorption affinity. Adsorbents commonly employed, in order of increasing adsorption capacity, are sucrose, starch, inulin, magnesium citrate, talc, sodium carbonate, potassium carbonate, calcium carbonate, calcium phosphate, magnesium carbonate, magnesia, lime (freshly and partially slaked), activated silicic acid, activated magnesium silicates, activated alumina, charcoal and magnesia, fuller's earth. The most active adsorbents (activated alumina, charcoal and magnesia, and fuller's earth) are used to separate substances that are not readily adsorbed, such as saturated hydrocarbons, aliphatic alcohols and sterols. Talc or magnesium carbonate may be used for strongly adsorbed substances such as the carotenes, chlorophylls and nitro-compounds. Using a strong adsorbent with substances of high adsorption affinity would make it difficult to obtain a separation, whilst with a weak adsorbent and substances of low adsorption affinity, all the substances would run through the column.

Development and Elution

A variety of solvents has been used for development and elution. For development one or other grade of petroleum ether is generally used, as these are weakest in eluant power. Should these not effect a separation, other solvents are used from the following (given in order of increasing eluant power): Petroleum ether, boiling point 30-50°; petroleum ether, b.p. 50-70°; petroleum ether, b.p. 70-100°; carbon tetrachloride, cyclohexane, carbon disulphide; ether (anhydrous, alcohol-free); acetone (anhydrous, alcohol-free); benzene;

toluene; esters of organic acids; 1, 2-dichloroethane, chloroform, dichloromethane; alcohols; water (variations with changes in *p*H and salt concentration); pyridine; organic acids; mixtures of acids or bases with water, alcohol or pyridine.

Much information has been collected concerning the relation between chemical structure and behaviour on a chromatogram. In general, the larger the number of double bonds or rings present in a substance, the more readily is it adsorbed, as illustrated in the following table:—

Adsorption	*Hydrocarbon*	*Formula*	*No. of Rings*	*No. of Double Bonds*
Strong	Naphthacene	$C_{18}H_{12}$	4	9
	Anthracene	$C_{14}H_{10}$	3	7
Weak	Naphthalene	$C_{10}H_8$	2	5
Strong	3:4–Benzpyrene	$C_{20}H_{12}$	5	10
	Chrysene	$C_{18}H_{12}$	4	9
	Pyrene	$C_{16}H_{10}$	4	8
Weak	Phenanthrene	$C_{14}H_{10}$	3	7
Strong	1:2:2′:3′–5:6:2″:3″–Dinaphthanthracene	$C_{30}H_{18}$	7	15
	1:2–Benz–5:6–(2′:3′–naphtho) anthracene	$C_{26}H_{16}$	6	13
Weak	1:2:5:6–Benzanthracene	$C_{22}H_{14}$	5	11

Introducing hydroxyl groups or carbonyl groups into a molecule increases its adsorption affinity. The generalisations are only relatively true. Recent work by Strain has shown the order of adsorption to depend not only on chemical constitution but also on the natures of the adsorbent and solvent. In the table opposite the order of adsorption of chlorophyll b, chlorophyll a, and fucoxanthin is seen (base of columns) to vary under different conditions.

The idea that solvents can be arranged in a series of gradually increasing eluant power forms the basis of a variant of the chromatographic method that does not involve removal of the column from the tube and mechanical separation of the bands. In the so-called fluid or liquid chromatogram the column is washed with a succession of solvents. The first, having a low eluant power, removes the most weakly adsorbed constituent; it is replaced in turn by solvents of slightly increasing eluant power the constituents being thus released one by one. The receiver is charged with changes of eluant and each fraction collected separately for examination.

	Columns of Magnesia and of Celite		
Adsorbents	Magnesia + Celite (1 to 1)	Celite	Celite
Solvents	Petroleum ether + 25% acetone	Petroleum ether + 0.75% ethanol	Petroleum eth + 0.75% ethanol + 5% aceto
Adsorption sequences	Chlorophyll b Chlorophyll a Fucoxanthin	Fucoxanthin Chlorophyll b Chlorophyll a	Chlorophyll b Fucoxanthin Chlorophyll a

Applications and Novel Techniques

Many of the applications of adsorption chromatography are by now well known, such as the separation of individual carotenoids; isolation and purification of vitamins A, E and K, riboflavin, certain sterols and the pterins; and detection of adulterants in foodstuffs and crude drugs. More recent applications of the "classical" procedure include the isolation and purification of pantothenic and phthioic acid (the latter the characteristic fatty acid of the tubercle bacillus); separations of amino acids on columns of titanium oxide; resolutions of d camphor on a column lactose; purifications of penicillin, streptothricin, streptomycin, helvolic acid and other antibiotics; and (what promises to become important) separation of enzymes from one another.

Charcoal, a useful adsorbent, is difficult use in chromatography as it conceals e bands that have been formed on the olumn. A technique evolved by Tiselius vercomes the difficulty, and has been used ith considerable success in separations of mino acids. The solution to be analysed forced upwards through a column of harcoal under slight pressure, and the ltrate emerges from the column into a glass ell, through which changes in refractive ndex are observed. A change in refractive ndex occurs as each amino acid is eluted rom the column. The results are expressed n the form of a gradient curve, by integrating which the total concentration of ach component can be estimated. Tiselius lso introduced a technique which he calls displacement" chromatography. With trong adsorbents such as charcoal, it is ometimes difficult to find an eluant sufficiently powerful to effect a separation. For his purpose a solution of a strongly adorbed substance, such as ephedrine, is used: he ephedrine displaces the less readily dsorbed substance and thus effects the esired separation. The method may have mportant applications in researches on ntibiotics.

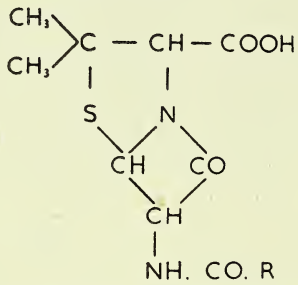
"Partition" Chromatography

The most important recent developments n chromatography have been the elaboration of methods depending on differences, not in adsorptive power but in other properties. "Partition" chromatography depends on differences in partition coefficients between solvents and water. The method was developed by Martin and Synge, who originally used a column of silica gel to support the aqueous phase. A solution of the mixture to be separated is poured on to the column, which is then developed with a solvent as in adsorption chromatography; the components of the mixture are partitioned between the water and the solvent, those more soluble in the organic solvent being carried down and those more soluble in water remaining near the top. The procedure was developed to separate mixtures of amino acids, such as are produced by the hydrolysis of proteins. The position of the individual amino acids is determined by adding to the solution an indicator that changes colour wherever an acidic substance occurs.

Later, Martin devised an elegant form of partition chromatography for use where only limited amounts of material are available. He employed a strip of filter paper maintained in an atmosphere saturated with water- and solvent-vapour. A drop of the solution to be analysed is applied to the top of the strip, and the column developed with an appropriate solvent. The position of the bands cannot be detected by the use of an indicator, so the paper is dried and sprayed with ninhydrin solution, when the position of each amino acid is indicated by the formation of a blue spot. Some amino acids cannot be separated from one another when certain solvents are used, and to overcome the difficulty a two-dimensional chromatogram was devised, in which a square sheet of filter paper is used. The amino acid solution is applied to one corner of the paper and developed in one direction as in the strip method. The paper is then dried, turned through a right-angle and developed in the other direction, using a different solvent. In this way any amino acids that have not been separated by the first solvent are separated by the second, and on spraying the paper with ninhydrin solution a pattern, characteristic of the amino acids present, is formed. A dramatic example of the value of the method was provided by an investigation into the structure of gramicidin S, an antibiotic discovered in the U.S.S.R. during the war and used extensively by the Russians in the treatment of war wounds. Synge was able to show, by partition chromatography, that gramicidin S is a pentapeptide, formed by the linkage of *l*-ornithine, *l*-proline, *l*-valine, *l*-leucine and *d*-phenylalanine. The experiments gave no clue as to how the amino acids are linked together, but this was revealed by similar experiments with partial hydrolysates, in which the amino acids were present as di- and tri-peptides. The partial hydrolysate was fractionated on two-dimensional paper chromatograms and the individual spots corresponding to each di- and tri-peptide were cut out. The material recovered from each spot by means of a micro-pipette was completely hydrolysed and then re-chromatographed. In this way the di-peptides were identified. Two other spots were identified as being due to particular tri-peptides, and the results could only be reconciled with a structure in which the five amino acids are linked together in one way. Partition chromatography may thus open the way to advances in exploring the structure of proteins.

In modification of the partition chromatogram described recently by Levi, the silica gel, instead of being saturated with water, is saturated with a buffer solution, thus enormously increasing capacity of the column (that is the amount of material it will retain). The

method was devised in order to purify penicillin, and led to the discovery of the existence of several forms with similar structures but different grouping for R in the formula given below:—



In penicillin I, R is a pentenyl group; and in penicillin II a benzyl group. Penicillins I and II can be separated on a buffered silica gel column both from one another and from other penicillins. Penicillin III or X (R=*p*-hydroxy-benzyl), being a stronger acid than either penicillins I or II, is retained at the top of the column whilst penicillin K (R=heptyl), being the weakest acid, tends to be washed down toward the foot. To detect the zones due to the different penicillins, the strips of filter paper are pressed on to plates of solid agar seeded with *Bacillus subtilis*. On incubation, the agar in the neighbourhood of the penicillin remains clear, due to inhibition of the organisms, whereas the rest of the plate becomes turbid. This both indicates the nature of the penicillins present and makes it possible to estimate the amount of each (from the diameter of the zone of inhibition).

Finally, chromatographic separation of substances has been accomplished using columns of ion-exchange materials. In one method the bases replace adsorbed sodium ions, whilst in a second the acidic ions replace anions such as chloride ions. Chromatography has now taken its place as one of the standard methods available to research workers.

Discussion and Questions

At the evening meeting of the Pharmaceutical Society in London on January 9, at which Mr. Robinson presented his paper, the chair was occupied by Mr. W. S. Howells (a member of the Council), who was supported by Mr. F. W. Adams (deputy secretary). In the subsequent discussion, Dr. Frank Hartley asked if the process of chromatography was capable of greater use in the resolution of optically-active substances. Mr. Robinson replied that it was doubtful; the effect of the optical activity of the adsorbent in resolving optically active isomens was not definitely known. Dr. Mitchell asked if chromatography could be applied in dealing with large quantities of materials, and if the process had any industrial applications. The reply was that usually a quantity of adsorbent, twenty times that of the material to be adsorbed, had to be used, and the speaker doubted whether the process had any industrial applications. There was a possibility of adapting the process of continuous ion exchange where one component was held and the others passed on into solution. By the use of two chromatographic columns, it might be possible to devise a continuous system suitable for industrial application.

Mr. A. L. Bacharach stated that the process of adsorption had been used by Wilstätter for his original work in separating enzymes. While he thought that chromatography was impracticable for manufacturing, it had many applications in the analytical laboratory, the detection of impurities in oils being one.

Dr. F. J. Dyer suggested that the process of chromatography should become a general feature of chemical analysis; the technique was simple and there was no reason why junior assistants should not be trained easily.

Dr. H. Davis stated that at the University College Hospital, London, chromatography had been applied in the investigation of amino acids in urine. Known amounts of amino acids were taken orally, and the acids were tested for later by the two-dimensional method described. This method had a use in disturbance pathology. Mr. Robinson suggested that the filter paper method of chromatography was admirably suitable for chemical pathology.

Professor H. Brindle referred to the use of chromatography in the analysis of the alkaloids of nux vomica and ergot.

Replying to other questioners, Mr. Robinson said that if the chromatographic column were extruded on to a glass plate, there was no danger of the column falling to pieces, and the technique of doing this was easily acquired. There was no means of forecasting which dyes were suitable for use in chromatography, and the only method of selecting a suitable dye was by trial and error. Chromatography had been used to isolate pure penicillin.

Dr. Dyer proposed and Dr. Hartley seconded a vote of thanks to the lecturer.

CORRESPONDENCE

orrespondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

An Unusual Container

SIR,—What is the purpose of a cylindrical ass bottle about 31 in. high and 32 in. circumference? I am told that it holds ver 6 gall. The mouth, about 2 in. across, ould take a cork. The glass has a black-h tint, but can be seen through.

Yours faithfully,
ADEST.

An Opinion on Economics

SIR,—Now that we are facing an im-inent industrial and financial crisis, I call my letter to you of about two years go, in which I suggested that those manu-cturers who were adopting a five-day eek were doing a disservice to the nation. ow is the time for the drug and chemical dustry to give a lead to the country by creasing working hours by, say, 20 per nt. a year. Higher production must be hieved, if only to preserve our present eagre food supply, and it would be better make the change voluntarily than have forced upon us.

Yours faithfully,
London, S.E.1. H. LATTIMER.

Pharmacists and a Sense of Humour

SIR,—A Knight of the Road said to me few days ago: "What a humourless rowd you chemists are." But is this ? I have undertaken a fair amount of cum duty up and down this country— Australia too, and India and South frica. My experience of pharmacists and harmacies has been varied. On the whole, ey are a good crowd of fellows. Most of em render excellent service to the com-unity with very little kudos or gain to emselves. A few are men of considerable anding and highly respected by everyone their locality. In the Dominions and in dia the pharmacist is very much a man f affairs. Any chemist, tied in during his orkaday hours, needs copious draughts f outside interests to keep his sense of alance. My friend the representative can st assured that many pharmacists have oth a fund of humour and a very wide utlook on life—but are they in a inority?

Yours faithfully,
"D. J."

Penicillin-for-Germany Appeal

SIR,—Scientists, particularly in the medical field, have generally held to the principle that the latest discoveries for saving life or mitigating suffering should be used for the benefit of all mankind. It is therefore with grave concern that we note that, owing to the completeness of the economic breakdown in Germany, patients in the German hospitals are largely deprived of remedies with which their lives might be saved or their sufferings lessened. A few months ago, we received a letter from Dr. Ruth Smatznig, of the children's hospital in Charlottenburg in the British sector of Greater Berlin, asking if we could send her even a small amount of penicillin for cases requiring it most urgently. At that time there was, she believed, no children's hospital in Berlin, apart from those hospitals receiving children under treatment for venereal disease, in which penicillin was available for other infections amenable to penicillin. A little more penicillin has now been made available for other than venereal cases, but there is still far less than is required by all types of hospitals. We have recently sent out, from the Ecumenical Refugee Commission of the World Council of Churches, in conjunction with Save Europe Now, 2,000 mega units of penicillin, which were flown across for us by the Royal Air Force and which the public health authorities of the British Army of Occupation on the Rhine are distributing for us among the hospitals in the British zone and in Berlin. They would gladly receive a similar consignment from us monthly, if we could send it, and more is urgently required. Your subscribers are in a position to assess the seriousness of the situation and we would like your co-operation in asking them to enable us to continue sending it. Donations may be sent to the chairman of the Ecumenical Refugee Commission, 21 Bloomsbury Street, London, W.C.1. The organisation is duly registered under the War Charities Act.

Yours faithfully,
HENRY CARTER.
YOLANDE FRIEDL, M.B., M.R.C.S.
London, W.C.1.

Staff Orchestra Formed.—Employees at the factory of Evans Medical Supplies, Ltd., Speke, Liverpool, formed recently an amateur orchestra. Lunch-hour concerts are given in the factory canteen.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantiti of standard quality. Prices of crude drugs and essential oils vary as to brand or grad

28 Essex St., W.C.2, January 22

THE COAL allocations, which have had the effect of cutting fuel supplies by half, will at least indicate to manufacturers where they stand in that these allocations represent actual deliveries and production schedules may be planned in accordance. The Government's White Paper (Cmd. 7018) emphasises the difficulties which are ahead and calls for greater efforts to increase exports. The chemical industry has already made a great contribution in this direction; it remains to be seen whether the export totals can be raised higher still. Shortages of various kinds face manufacturers; fuel has already been mentioned, but in addition, supplies of raw materials and of packages are very low.

This week the demand for PHARMACEUTICAL CHEMICALS has continued on a good scale. Quotations for BARIUM SULPHATE, B.P. shows an increase and there has been an advance in the rates for STRYCHNINE of sixpence per oz., from January 20. The market shows a very firm undertone and further advances must be expected in the near future.

Crude Drugs

More activity has been seen in the CRUDE DRUGS market this week. Export inquiry has been most pronounced but a fair business has been done in the home trade. AGAR has been in good demand, especially for re-export; no further developments are reported in the purchase of Japanese material. A good business has been passing in BENZOIN; supplies are reasonable and the quality is good. CANADA BALSAM is somewhat firmer on the spot. A fair demand is reported for CAMPHOR; prices in China are rising and quotations at origin are at 9s. 9d. per lb. for powder and 10s. for tablets. A parcel of CANTHARIDES is said to be on the way and merchants are quoting from 15s. to 16s. per lb., landed terms. CLOVES shows a firmer market. Spot stocks of GALBANUM and of LOBELIA are exhausted. Brazil MENTHOL is easier; a somewhat better inquiry is reported for Chinese material. NUX VOMICA is quiet but there is a firmer undertone and shipment prices tend to be higher. RHUBARB is in good demand, particularly for the better qualities; quotations for the poorer grades are lower. SHELLAC is an easier market. A small supply of STROPHANTHUS, Kombé, 100 per cent. is available. Shipment quotations f OURICURI WAX are at a lower value.

Essential Oils

Few changes have been reported in t quotation for these products. Supplies showing an improvement and a grad easing of the prices is to be expected. further oils have been removed from scheme of distribution of the Essential C Control.

U.S. Drug and Chemical Report

New York, January

CONTINUING advances among fine chemic reflect the higher prices demanded for r materials and increased labour and tra portation costs. ALCOHOL presents an decided picture; following the Presider announcement of the official ending hostilities—which means a reduction revenue tax on this material from $9 to a gall. from July 1. However, no alterat to the existing programme has yet b officially announced.

The MENTHOL market has continued decline and spot market prices range tween $7.05 and $7.30 dollars per l January-February and March-April sh ment prices are quoted at $6.60 to $6 and many dealers anticipate further eas in view of the improving import situati This week, about 430 cases arrived fr Japan, and 1,250 from Brazil, although latter was wholly consigned to one la consumer. Competitive conditions h developed in PENICILLIN and some deal are understood to be attempting to red their stocks of amorphous material favour of the crystalline product; the pr of the former has been reduced from 50 42 cents for 100,000 unit vials. A welco arrival this week was a consignment Japanese AGAR—about 300 bales; f prices prevail in view of the tight situat in the material. The soap trade has fo cast a shortage of its products until 194 a situation which will most probably be flected in GLYCERIN. Insufficient CAS OIL is available to meet the present h level of demand; arrivals of beans si January 1 are reported to have total 29,400 bags, the equivalent of ab 4,400,000 lb.

Considerable buying activity has b noted on the BOTANICAL DRUG markets t

eek following the recent seasonal slackess. Medicinals were in short supply however, and the price trend was upward. INCHONA BARK and CINCHONA ALKALOIDS re likely to remain subject to allocation ontrol until the end of 1947, trade circles elieve. Extreme caution is being displayed the distribution of the stockpile, which is id to be hardly adequate to meet even nti-malarial needs. Material imported om Central America is reported to be of w test (1-2 per cent.) against Netherlands ast Indies produce which, when available, subject to controls which ensure a 6 per ent. content. Moderate arrivals of TOLU ALSAM from overseas of late have relieved e tight market position here and prices ave declined. PAPAIN imports have also nproved.

Again, downward price revisions on the SSENTIAL OILS market evinced the improved import position. Of particular terest were shipments of CITRONELLA OIL rom both Brazil and Ceylon (a total of 32 rums) and the arrival of 92 drums of ANISE, 28 drums of CAMPHOR and 60 rums of CASSIA from Hong Kong. On e other hand, Italian LEMON and BERGAOT OILS were both firmer following higher eplacement costs at the producing centre. The AROMATIC CHEMICALS market continues to ease although raw material shortges are still limiting production and the upply of containers is not yet sufficient to eet with all requirements.

Pharmaceutical Chemicals

ASPIRIN.—Makers' prices per lb. (containers in brackets) current in the home market from January 14, are as follows: 28 lb. and under 1 cwt., 4s. 4½d. (1-lb.), 4s. 3½d. (2-lb.), 4s. 3d. (4-lb.), 4s. 2d. (7-lb.), 4s. 1½d. (14-lb.), 4s. 0½d. (28-lb.). Terms: Net one month.

ASPIRIN TABLETS.—Makers' new prices for bulk supplies per 1,000 are as follows: Under 5,000, 3s. 8d.; 5,000 and over, 3s. 6d.; 10,000, 3s. 5d.; 25,000, 3s. 3d.; 50,000, 3s. 2d.; 100,000, 3s. 1d.; 250,000, 3s. 0½d.; 500,000, 3s.; 1,000,000, 2s. 11d.

ATROPINE.—Home trade prices per oz. are unchanged as follows: ALKALOID, 42s. 6d.; 4 oz., 42s.; 25 oz., 41s. 6d. SULPHATE, 34s.; 4 oz., 33s. 6d.; 25 oz., 33s. METHYLBROMIDE and METHYLNITRATE, 75s.

BARIUM SULPHATE.—Makers have increased the rates for B.P. (*x*-ray) quality and the new prices per lb. (containers in brackets) are as follows: 28 lb. and under 1 cwt., 1s. 7d. (1-lb.); 1s. 6d. (2-lb.); 1s. 5½d. (4-lb.); 1s. 4½d. (7-lb.); 1s. 4d. (14-lb.); 1s. 3d. (28-lb.). Net one month.

BENZOIC ACID.—Current price is 2s. 9d. per lb., for small quantities.

BENZYL BENZOATE.—A good demand is reported for B.P., available at 4s. 6d. to 5s. per lb., according to pack.

BISMUTH SALTS.—Increased rates per lb., in the home market, from January 1, are as follows (containers in brackets): 14 lb., and under 28 lb., 14s. 11½d. (1-lb.), 14s. 10½d. (2-lb.), 4s. 10d. (4-lb.), 14s. 9d. (7-lb.); 7 lb. and under 14 lb., 15s. 2d. (1-lb.), 15s. 1d. (2-lb.), 15s. 0½d. (4-lb.), 14s. 11½d. (7-lb.). CITRATE, 10d. per lb. over above prices; SALICYLATE, 4d. per lb. less than above prices; SUBGALLATE, 3s. per lb. over above prices; SUBNITRATE, 1s. 7d. per lb. less than above prices.

GUAIACOLS.—In limited supply. Quotations are as follows: Liquid, 16s. per lb.; crystal, 15s. per lb.; carbonate, 15s. per lb.

IODINE PREPARATIONS.—Current rates per lb., in the home trade, are as follows: POTASSIUM IODIDE, B.P.—112 lb., 9s. 6d.; 28 lb., 10s.; 14 lb., 10s. 6½d.; 7 lb., 12s. 0½d.; 4 lb., 12s. 6½d.; smaller quantities, 13s. per lb. SODIUM IODIDE, B.P.—28 lb., 10s. 5d.; 14 lb., 10s. 11½d.; 7 lb., 12s. 8½d.; 4 lb., 13s. 4½d.; smaller quantities, 14s. 2d. IODOFORM, B.P.—28 lb., 13s. 7d.; 14 lb., 14s. 1½d.; 7 lb., 16s. 3½d.; 4 lb., 17s. 1½d.; smaller quantities, 17s. 11d. IODOFORM CRYSTALS, 2s. per lb. above powder prices. IODINE RESUBLIMED, B.P.—112 lb., 10s. 11d.; 28 lb., 11s. 5d.; 14 lb., 11s. 11½d.; 7 lb., 13s. 9½d.; 4 lb., 14s. 4½d.; smaller quantities, 15s. 10d.

METHYL SALICYLATE.—Recently increased rates are as follows: Winchesters, 2s. 2½d. per lb.; 56 lb, in demijohns, 2s. 1d.; 1 cwt., in demijohns or carboys, 2s. 0½d.; 5 cwt., 2s. All prices net.

MORPHINE.—Prices per oz. current in the home market are: PURE, ½ oz., 55s. 3d.; 1 oz., 52s. 9d.; 2 oz., 51s. 3d.; 3 oz., 50s. 6d.; 4 oz., 50s. 3d. HYDROCHLORIDE, ½ oz., 46s. 9d.; 1 oz., 44s. 3d.; 2 oz., 42s. 9d.; 3 oz., 42s.; 4 oz., 41s. 9d.; BIMECONATE and TARTRATE, as PURE; ACETATE, HYDROBROMIDE and SULPHATE, as HYDROCHLORIDE.

SALICYLATES.—Makers' prices per lb. (containers in brackets) for SODIUM SALICYLATE, current in the home market from January 14, are as follows: 28 lb. and under 1 cwt., 3s. 2d. (1-lb.), 3s. 1d. (2-lb.), 3s. 0½d. (4-lb.), 2s. 11½d. (7-lb.), 2s. 11d.

(14-lb.), 2s. 10d. (28-lb.). Terms: Net one month.

SALICYLIC ACID.—Makers' prices per lb. (containers in brackets), current in the home market from January 14, are as follows: 14 lb. and under 28 lb.. 2s. 9½d. (1-lb.), 2s. 8½d. (2-lb.), 2s. 8d. (4-lb.), 2s. 7d. (7-lb.), 2s. 6½d. (14-lb.), 28 lb. and under 1 cwt., 2s. 8½d. (1-lb.), 2s. 7½d. (2-lb.), 2s. 7d. (4-lb.), 2s. 6d. (7-lb.), 2s. 5½d. (14-lb.), 2s. 4½d. (28-lb.). Terms: Net one month.

Crude Drugs

ALOES.—Curaçao is firmer at 250s. to 265s. per cwt., spot; forward, from 235s. to 245s., c.i.f. Quotations for Socotrine are at 185s., on the spot.

ANISE (STAR).—Quotations remain unchanged at 190s. to 210s. per cwt., on the spot; shipment, 120s., c.i.f.

ANTIMONY.—Current prices are as follows: 99.6 regulus, £157 10s. per ton, delivered; 99 per cent. regulus, £150 per ton, delivered.

ARECA NUTS.—Ceylon is firmly held at 65s. per cwt.; shipment, 62s. 6d., c.i.f.

BALSAMS.—*Canada* is quoted at 14s. 9d. to 15s. per lb. *Peru* is quoted at 7s. 9d. per lb., duty paid. A small supply of *Tolu* is available at 20s. per lb., on the spot; shipment, 18s. 6d., landed.

BENZOIN.—Sumatra is quoted at £25 to £27 per cwt., spot, for the best grades; afloat, £22 10s.; forward shipment, £15 to £17. A lower grade is offered at £22 per cwt., spot.

BISMUTH.—Current price for high-grade metal is 10s. per lb., in minimum 5-cwt. parcels.

BUCHU.—Old-crop material is available at 4s. 2d. to 4s. 3d. per lb.; new crop is quoted at 4s. per lb., c.i.f.

CALABAR BEANS.—Quotations are at 1s. 6d. to 1s. 7½d. per lb., ex warehouse Liverpool.

CALUMBA.—Spot quotations for washed root are steady at 80s. per cwt. Natural root, for export, is offered at 55s. per cwt.

CAMPHOR.—In good demand. Chinese tablets (¼-oz.) are quoted at 13s. 6d. per lb., spot; shipment is firmer at 11s. 9d. to 12s., landed, duty paid. Refined powder (B.P.) is quoted higher at 10s. 6d. to 11s. per lb., duty paid; crude powder, 9s. 3d. to 9s. 6d.

CANTHARIDES.—Quiet. Chinese on the way, 15s. to 16s. per lb., landed.

CAPSICUMS.—East African is steady at 120s. to 140s. per cwt., according to quality.

CARDAMOMS.—Mangalore, half-bleached, A's are quoted at 8s. 9d. per lb.; B's, 8s. 3d. per lb., spot. Aleppy seeds, No. 1, are available at 7s. 9d. per lb.; Aleppy greens, 6s. 9d. to 7s. per lb., spot.

CASCARA SAGRADA. — A firm market. Values are held at 275s. to 290s. per cwt., duty paid, according to holder.

CASCARILLA.—Quills are quoted at 2s. 3d. per lb., on the spot.

CHAULMOOGRA. — Quiet. *Hydnocarpus* is available at 2s. per lb., in tins in cases.

CHILLIES.—Mombasa are quoted at 165s. to 170s. per cwt., spot; Nigerian, 135s. to 140s.; Sierra Leone, 140s., spot. Japanese-type are offered at 190s. to 200s. per cwt., on the spot.

CINNAMON.—Quillings are quoted from 3s. to 3s. 3d. per lb., spot; featherings, from 2s. 8d. to 3s. 1d.; chips, sifted and washed, 1s. 9d. to 2s. per lb., spot; shipment, 1s. 3½d., c.i.f.

CLOVES.—Firm. Spot quotations for Zanzibar are at 10½d. per lb.; shipment, quoted firmer at 10¼d. per lb., c.i.f.

COCHINEAL.—Silver-greys, for the home trade, 4s. 6d. per lb., on the spot; blacks, very scarce, 5s. 9d. per lb.

COCOA BUTTER.—Controlled price remains at 1s. 7d. per lb., ex factory or warehouse.

COCONUT (DESICCATED). — Maximum controlled price is 74s. 8d. per cwt., ex store.

COLOCYNTH.—Fine-white is steady at 2s. 6d. per lb., spot; medium-white, 2s. 3d. per lb.

DIGITALIS.—Portuguese is steady at 130s. per cwt., spot; English-grown, from 2s. 3d. to 2s. 6d. per lb.

ERGOT.—Quoted at 4s. 6d. to 4s. 9d. per lb., spot; to arrive, 4s. 3d., c.i.f.

EUPHORBIUM.—Steady. Quoted at 75s. per cwt., on the spot.

GALANGAL.—Forward quotations are unchanged at 75s. per cwt., c.i.f.

GALBANUM.—Spot stocks are exhausted and no shipment offers are being made.

GENTIAN.—Root of French origin is offered at 112s. per cwt., spot.

GINGER.—Jamaica No. 1 is quoted higher at 125s. per cwt.; No. 2, 115s.; No. 3, 105s. to 107s. 6d., spot. African, 75s., spot; new crop, February-March, 63s., c.i.f., sellers.

GUM ACACIA.—Firm. Kordofan cleaned sorts are quoted at 77s. 6d. per cwt., spot. Shipment, old crop, 72s., c.i.f.; new crop, February-March, 74s. 6d. per cwt., c.i.f.

bleached No. 1, 145s., ex store. Talha, cleaned, 45s., spot; forward, 42s. 6d., c.i.f.

GUM MASTIC.—Quoted at 17s. per lb., duty paid.

HENBANE.—Indian leaf, steady at 250s. per cwt., spot.

HENNA.—Indian leaves, to arrive, quoted at 1s. 5d. per lb., spot, nominal.

HYDRASTIS.—Quoted at 60s. per lb., spot; forward, 57s., c.i.f.

IPECACUANHA.—Firm. Nicaraguan root tends to be firmer at 29s. per lb.; no shipment offers are reported.

JALAP.—Vera Cruz, with a reputed test of 12 per cent., 3s. 6d. per lb., spot, nominal.

JUNIPER.—Firm. Italian berries are quoted from 56s. to 65s. per cwt., according to quality.

KAMALA.—In very short supply. Quotations are at 3s. per lb., spot.

KARAYA.—No. 1 gum is quoted at 215s. to 220s. per cwt., spot; No. 2, 170s.

KOLA NUTS.—African quarters are quoted at 7½d. per lb.; African halves, 5d. to 6d., according to quality; Jamaican washed halves, 5½d. per lb.

LIQUORICE ROOT.—Anatolian whole root is steady at 60s. per cwt., on the spot. Turkish juice (block) is quoted at 250s. to 260s., spot; forward, 190s., c.i.f.

LOBELIA. — Spot quotations are unchanged at 6s. per lb. Difficult to locate.

MACE.—Scarce. West Indian pale is quoted at 7s. 9d. per lb., landed; pickings, from 4s. to 5s. 6d. per lb., according to quality.

MENTHOL.—Brazil is easier at 41s. 6d. to 42s. 6d. per lb., spot; forward, 36s., c.i.f. Chinese, in more demand, is steady at 47s. 6d. per lb., duty paid.

MERCURY. — Spot quotations are at £20 15s. to £21 per flask, ex warehouse; for shipment, £20 6s., c.i.f. U.K.

MYRRH.—Aden sorts are available at £14 to £17 per cwt., according to quality; siftings, £8 to £10 per cwt.

NUTMEGS.—West Indian 80's are quoted at 5s. per lb., spot; for shipment, 4s. 3d., c.i.f. Sound unassorted, 4s. 3d., spot; wormy and broken, 4s., spot.

NUX VOMICA.—Madras, steady at 40s. to 42s. 6d. per cwt.; Mangalore, 40s.; Cochin, 43s. 6d. to 45s., spot.

OLIBANUM.—Fine drop is quoted at 250s. per cwt.; garblings, 180s.; seeds, 175s.; siftings, 110s. Pea size is unquoted.

ORANGE PEEL.—Spanish quarters steady at 1s. 6d. per lb., spot; sweet ribbon, 1s. 9d. per lb. Italian bitter quarters are quoted at 1s. 6d. per lb., spot.

ORRIS.—Firm. Florentine is quoted at 140s. to 150s., according to holder.

PAPAIN.—East African white, 30s. per lb., spot, nominal.

PEPPER.—A quiet market. Lampong black, to arrive, 2s. 2d. per lb., c.i.f. Muntok white, January-February shipment, 2s. 8d. per lb., c.i.f.

PIMENTO.—Spot quotations are at 1s. 0½d. per lb., sellers; forward, 122s. 6d., c.i.f.

QUASSIA.—Chips are steady at 36s. to 38s. per cwt., c.i.f.

QUILLAIA.—Natural bark, quoted at 130s. per cwt.; cut, 150s., ex store.

QUINCE SEEDS.—Cape is quoted at 6s. 9d. per lb., on the spot.

RHATANY. — Steady. Spot quotations are unchanged at 11d. per lb.

RHUBARB.—Chinese rough round with a fair fracture, 9s. 6d. to 10s. 6d. per lb., according to quality; forward, 7s. 6d. to 8s. 6d. per lb., c.i.f. Poorer material, 7s. 9d. to 8s. per lb., spot; forward, 7s., c.i.f. French rhapontica is available at 2s. 3d. per lb., spot.

SANDRAC.—Quotations are at 6s. per lb., ex store, London.

SARSAPARILLA. — Jamaica native red is quoted at 2s. 4d. to 2s. 6d. per lb., according to holder.

SEEDS.—ANISE.—Spot, Cyprus quoted at 2s. 5d. per lb., ex warehouse London or Liverpool. CELERY.—Spot, Indian offered at 1s. 5d. per lb., ex warehouse London or Liverpool. CORIANDER.—Spot, Indian, 70s. per cwt., ex warehouse London; Morocco quoted at 62s. 6d., duty paid, ex warehouse London; 48s., c.i.f., January-February shipment. CUMIN.—Spot, Cyprus, 230s.; Indian, 235s., both ex warehouse, London. DILL.—Spot, Indian, 50s., ex warehouse London; 47s. 6d., ex warehouse, Liverpool. FENNEL.—Spot, Indian, now offered at 145s., ex wharf Liverpool. FENUGREEK.—Spot, Indian, unchanged at 55s., ex warehouse London and 52s. 6d., ex warehouse, Liverpool.

SENEGA.—Spot quotations are held at 15s. per lb.

SENNA.—Tinnevelly leaves, spot, No. 1, 1s. 2d.; No. 2, 10½d.; No. 3, 10d.; No. 4, 8½d. Tinnevelly pods, hand-picked, 10½d. to 1s. 4d.; manufacturing, 6d. to 6½d. Alexandrian pods, hand-picked, spot, from 4s. 3d. to 4s. 9d., according to quality; medium, 2s. 9d.; manufacturing, 1s. 9d. to 2s. per lb.

SHELLAC.—Spot quotations, ex warehouse London, are as follows: F.O.T.N., pure, quoted at 320s. per cwt., F.O. standard, No. 1, 325s.; F.O. lemon, No. 1, 337s. 6d.; F.O. lemon, No. 2, 330s.; A.C. garnet, 355s., buttonlac, 350s. per cwt.

STROPANTHUS.—A limited supply of Kombé seed, 100 per cent., is available, 10s. per lb.

SQUILL.—Firm. Quotations are at 70s. per cwt., on the spot.

STRAMONIUM.—Indian leaf is firmly held at 95s. per cwt., on the spot.

STYRAX.—Small quantities are available at 4s. 10½d. per lb., duty paid.

TONKA BEANS.—Frosted Para is at 5s. to 5s. 6d., on the spot, as to holder.

TRAGACANTH. — Selected grades are quoted at £155 per cwt. Other grades are as follows: No. 1 white, £145 per cwt.; No. 2 white, £125; No. 3 white, £110; No. 4 white, £85; pale leaf, £50; amber leaf, £45; dark amber, £35; brown leaf, £25; red-and-brown leaf, £20; red leaf from £17; hoggy, £12 to £15 per cwt.

TURMERIC.—Madras finger is quoted at 97s. 6d. to 100s. per cwt., spot. January-February shipment, 107s. 6d., c.i.f.

VALERIAN.—Belgian root is steady at 210s. to 240s. per cwt., according to holder.

WAXES. — CARNAUBA. — Fatty, grey, 1,020s. per cwt., spot; January-February shipment, 890s., c.i.f. Chalky grey, 950s. per cwt., spot; shipment, 880s., c.i.f. Prime yellow, 1,200s. per cwt., spot; January-February delivery, ex store, 1,150s.; January-February shipment, 1,050s., c.i.f. CANDELILLA.—Spot, 440s. per cwt., forward, 440s., c.i.f. BEES'.—Dar-es-Salaam, spot, 350s. per cwt.; shipment, 350s., c.i.f. Benguela, spot in bond, 315s. per cwt.; shipment, 315s., c.i.f. Lindi, 347s. 6d., spot; shipment, 345s., c.i.f. Sudanese, spot, 345s. per cwt., duty paid; shipment, 310s., c.i.f. MONTAN.—Crude Czechoslovakian, 355s. per cwt., spot. OURICURI.—5 per cent., 555s. per cwt., spot; shipment, 6 per cent., 480s., c.i.f.

Essential and Expressed Oils

BAY.—West Indian, quoted at 8s. to 9s. per lb., on the spot.

CADE.—Nominal value is about 5s. per lb.

CASSIA.—Quotations are from 18s. to 21s. per lb., on the spot, according to quantity.

CASTOR.—Current prices per ton are: "Firsts," £110; "seconds," £108, naked ex works.

CINNAMON LEAF.—Spot quotations are from 17s. to 18s. per lb., as to quantity.

CITRONELLA.—Ceylon is steady at 13s. 9d. to 14s. 9d. per lb., spot; forward, 11s., c.i.f.

CLOVE.—English-distilled oil is quoted at 11s. to 12s. per lb., according to quantity.

CORIANDER. — Quotations for English-distilled oil are from 225s. per lb., according to quantity.

FENNEL.—Sweet oil is steady at 25s. per lb., on the spot.

GERANIUM.—Bourbon is steady at 85s. to 90s. per lb., on the spot.

GINGER.—Quoted at 80s. to 100s. per lb., according to quality.

GUAIACWOOD.—Quoted at 18s. to 19s. per lb., spot, according to quantity.

JUNIPER BERRY.—Quotations for English-distilled oil are at 135s. per lb.

LAVENDER.—French oil (38 to 40 per cent. esters) is steady at 62s. 6d. to 67s. 6d. per lb. Spanish (spike) is available at 15s. per lb., spot.

LEMONGRASS.—Cochin is quoted on the spot at 20s. to 21s. per lb.; forward quotations are easier at 17s. to 18s., c.i.f.

LIME.—West-Indian distilled oil is steady at 35s. per lb.

LINSEED.—Controlled price for crude oil is £135 per ton, naked, ex works.

NEROLI.—Forward quotations are in the region of 70s. per oz., c.i.f.

NUTMEG.—Scarce. English-distilled oil is quoted at 77s. 6d. per lb., nominal.

OLIVE.—Controlled price of edible, 1 per cent., is 47s. 9d. per gall. of 9 lb., ex store London, in 45-50 gall. drums.

ORIGANUM.—Quotations remain at 21s. per lb., on the spot.

PALMAROSA.—Spot, quoted at 50s. per lb.; shipment, 41s. per lb., c.i.f.

PATCHOULI.—Singapore, shipment is quoted at 200s. per lb., c.i.f.; Seychelles, shipment, 120s., c.i.f.

PIMENTO BERRY.—Steady. English-distilled oil is quoted at 57s. 6d. per lb.

RAPESEED.—Controlled price, for bulk supplies of crude oil, remains at £91 per ton, naked ex works.

ROSEMARY.—Steady. Spanish quoted at 10s. 6d. to 12s. 6d. per lb., according to quantity.

THYME.—Red oil (40 to 42 per cent. phenols) is quoted at 20s. per lb.; white oil is quoted at 22s. 6d. per lb., on the spot.

VETIVERT. — Quotations for shipment, 160s. per lb., nominal.

OVERSEAS TRADE NEWS

Indian Shellac Exports.—Shipments of shellac during December 1946 totalled 39,923 packages compared with an earlier estimate of 49,907. Consignments for the United Kingdom totalled 10,145 packages.

Franco-Danish Trade Pact. — The Danish Foreign Ministry announced recently that a supplementary trade agreement had been concluded between Denmark and France. Danish exports include casein and glycerine.

U.S. Production of Mint Oils.—Official estimates of the production of peppermint oil in 1946 gave the output at 1,334,000 lb., compared with the 1945 output of 1,410,000 lb. A decline was also shown in spearmint oil production; the 1946 estimate was 286,000 lb., against an output of 295,000 lb. in the previous year.

East African Trade. — Kenya and Uganda, in the first seven months of 1946, imported drugs, medicines and medicinal preparations to the value of 4,229,525 shs. Among the principle exports in this period were: Chillies, 816,079 shs.; pyrethrum, 14,876,278 shs. and sodium carbonate, 4,743,463 shs.

South Africa to Control Chemicals.—The Government of South Africa has decided to re-establish controls on certain non-ferrous materials and industrial chemicals in short supply. Acute shortage has made it imperative to control lead and its compounds, caustic soda, soda ash and several other materials of industrial importance, it is stated. Export controls on some non-ferrous materials and industrial chemicals will continue.

Toronto Trade Fair.—Good progress is reported in the plans for Canada's international trade fair to be held in Toronto in June 1948. Exhibits are to be grouped by products and not by country of origin. Foreign manufacturers who are interested in selling their products in the Dominion and desire space at the fair are invited to write to the nearest Canadian Foreign Trade Service representative for the fair brochure.

Australian Nicotine Production.—The production of the insecticide nicotine sulphate from the plant *Nicotiana rustica* is being encouraged in Australia by the Government, according to the Ministry of Commerce and Agriculture; the Government is assisting several chemical companies in undertaking production of the material, the report states. It is estimated that about 800 acres must be planted if sufficient insecticide is to be produced to meet the country's requirements.

Nicaragua's Ipecacuanha Exports.—Shipments of ipecacuanha root from Nicaragua declined in 1945 to 31,362 kilos, compared with 37,621 kilos for the previous year. Great Britain's share of these exports expanded, however, from 6,540 kilos, in 1944, to 18,867 kilos in 1945. Exports of the root to the United States declined from 27,555 kilos to only 3,501 kilos in these years. In 1946, U.S. shipments increased and in the first eight months of 1946, 15,545 kilos of the drug was purchased from that source.

Canadian Exports.—The Dominion exported in October 1946, medicinal and proprietary preparations to the value of $553,000 against $392,000 for the same month in 1945. The total for the period of ten months, January to October, 1946, showed a decline when compared with that for the same period in 1945. The figures for the two periods were $4,629,000 and $5,142,000, respectively. A more marked decline is seen in exports of toilet preparations. The monthly totals were $39,000 in 1946, compared with $159,000 in 1945 and for the ten-month period, $606,000, against $1,426,000 in 1945.

Danish Pharmaceutical Industry.—The export of Danish medicinal products which dropped from the 10 million kroner level of 1939 to only 5 to 6 million kroner in the war years, is again increasing despite present restrictions. During the occupation, production of sulphonamide preparations and opiates was started and these lines are expected to find a good export market. Certain vitamins are now being turned out and the manufacture of cod-liver oil is said to have yielded good results although quality is below the Norwegian or Icelandic article. It is hoped to establish a penicillin plant in the country. Regarding imports, Great Britain and the United States are today Denmark's chief suppliers of medicinal and chemical products; they are however unable to satisfy all requirements and other markets have had to be sought. Before and during the war, Denmark relied upon German exports. Limited quantities are now beginning to arrive from European countries, but there are numerous difficulties hindering such trade; negotiations are under way with several countries.

BUSINESS QUERIES

Initial Allowance

"In June 1944 we purchased certain electrical apparatus and have been granted a wear and tear allowance in respect of it. Does this mean that we cannot claim an initial allowance?—J. & F."

Provision is made in the Income Tax Act, 1945, for an initial allowance of one-fifth of the net cost of plant and machinery, both new and second-hand, purchased after April 6, 1946. Normally, the allowance applies to electrical apparatus, and it is granted for apparatus purchased after April 6, 1944, providing that it was still in use on April 6, 1946.

Monthly Statements

"I obtain most of my supplies through a local firm and I should like to find a way of dealing with invoices and monthly statements of account.—O. D."

Where the main requirements are obtained from one or two local suppliers no very elaborate system is required so far as the creditors' accounts are concerned. All the invoices and debiting documents received from the same firm can be pinned together or otherwise attached to await the arrival of the monthly statement, when the details can be checked and ticked off. The totals of the invoices can be entered on the credit side of a "sundry creditors' account," and all payments can be debited to this account from the cash book.

Credit Sales

"I am starting up again after five years in the Army, and am writing to ask if you would assist me to institute a simple method of booking credit sales.—T. W."

Credit sales should be entered in a separate book, which may be either a simple form of day book or an analytical journal. Each entry should give the date of the sale, the number of the invoice, the customer's name and address, a description of the goods or articles supplied, and the total sum charged. The net total of each invoice will have to be posted to the debit side of the particular personal account opened in the sales or customers ledger, with the date and brief particulars, including the sales book folio. If the sales are not classified, the monthly totals of the sales book should be credited to a general sales account kept in the impersonal ledger, but if an analytical sales book is used the totals should be credited to separate accounts.

MISCELLANEOUS INQUIRIES

Formulas given below may have been prepared for overseas subscribers and the inclusion of substances therein is no indication that they are available in Britain or, if available, permitted to be used for the purpose.

Aluminium Paste.—*G. L. D.*—The preparation about which you inquire is most probably that known as "Baltimore paste" made by mixing powdered aluminium with sufficient liquid paraffin to produce a stiff paste, 1 part; and zinc oxide ointment, 4 parts. It is used to protect the skin against the gastric juices after gastrotomy and similar operations.

Curing Rabbit Skins.—*S. de T.B.*—The following is a popular and simple way of curing rabbit skins:— Soak the skins in clean water for twenty-four hours. Remove all fatty tissues, small veins, etc., by rubbing hard with a suitable instrument. Dissolve 10 oz. of alum and 5 oz. of common salt in 5 pints of warm water and soak the skins in this solution for forty-eight hours (5 pints of solution is sufficient for two skins). Remove the skins from the bath and stretch them out in a dry, but not hot place, turning them as often as possible. In order to make the skins supple, pin them on a board, leather side up, and rub them hard with pumice stone, talcum or pumice powder.

Hair Cream.—*J.C.B.*—Formulas for hair creams containing beeswax, or stearic acid, are given below:—

I

Tegin	10
Neutral hydrocarbon oil	20
Beeswax	3
Castor oil	5
Water	50
Perfume	q.s.
Preservative	q.s.

II

Triethanolamine	1.25
Stearic acid	6
Spermaceti	3
Mineral oil	25
Distilled water	65
Perfume	q.s.

Dissolve the triethanolamine, stearic acid and spermaceti in the liquid paraffin on a water bath. While still warm, run in the water previously warmed, stir vigorously until quite homogenous and cool, then work in perfume, taking care not to occlude air.

TRADE MARKS

(From "The Trade Marks Journal," December 30, 1946)

SYLKUNA"; for toilet creams (not medicated) (3). By Henry Field, Station Road, Tidworth, Hampshire. 639,642.

RIBBITS"; for toilet preparations (not medicated) for cleaning the mouth and teeth; scouring, polishing, burnishing and cleaning preparations; wax preparations for cleaning, polishing, laundry and toilet purposes (3). By Commanditaire Vennootschap Chemische Fabriek Rids, Middenhavenstraat 36, Ijmuiden, Netherlands. 643,080 (Associated).

PERFUMERIE DE MONTESPAN"; for perfumes, toilet preparations (not medicated), cosmetics and depilatory preparations, dentifrices, toilet articles (not included in other classes), sachets for use in hair-waving, soaps and essential oils (3). By Etablissements Crucq Francis Fils Ainé, 26 Rue des Petites Ecuries, Paris, France. B643,193.

CHLORYLEN"; for pharmaceutical preparations containing trichlorethylene (5). By British Schering, Ltd., 167 Great Portland Street, London, W.1. 642,124.

DADETH"; for insecticides (5). By D. McDermott (Insecticides), Ltd., 47A Church Street, Runcorn, Cheshire. 642,471.

JUVECTIN", "MYCARNOL", "PRIOVITON", "SPIRARSONE" and "PADUCRIN"; for pharmaceutical preparations and substances (5). By Bayer Products, Ltd., 14 Waterloo Place, Pall Mall, London, S.W.1. 643,519,-21,-26,-30,-32 (Associated).

LEBRASOL"; for soluble pessaries (5). By Le Brasseur Surgical Manufacturing Co., Ltd., 90 Worcester Street, Birmingham, 5. 644,205.

APPLICATION AMENDED AFTER OPPOSITION.

Specification 630,167 by John Paterson & Co., Ltd., should be amended so as to read "Bleaching preparations (for household use); ammonia for laundry and household use; laundry preparations, cleaning preparations for textile materials, essential oils, soap (not being polishing soap), soap powders, washing preparations in liquid form, detergents, perfumes and toilet preparations (not medicated), and not being toilet preparations for the feet, but not including shaving cream and not including any goods of the same description as shaving cream."

(From "The Trade Marks Journal," January 1)

"BROAMATT"; for preparations and substances for laundry use; cleaning, polishing, scouring and abrasive preparations; and soaps (3). By Brobat Manufacturing Co., Ltd., 131 Wandsworth Road, London, S.W.8. B642,818.

"LONDON'S PRIDE" in distinctive lettering on pictorial design of Hampton Court; for soaps, toilet preparations (not medicated), perfumes, essential oils, cosmetic preparations, hair oils and dentifrices (3). By Smiths (Hampton), Ltd., 19 Thames Street, Hampton-on-Thames, Middlesex. 643,162 (Associated).

"BRYTONA"; for toilet articles included in this class, toilet preparations (not medicated), cosmetic preparations none being saponaceous; and perfumes (3). By Bryten Toilet Products, Ltd., 299 London Road, Ewell, Surrey. 643,461.

"ANTHROCREME"; for hair cream (3). By Tony the Greek, 27 Wiltshire Road, Derby. B643,757.

"GAMMICIDE"; for vermicides, insecticides, larvicides, fungicides, bactericides and parasiticides (5). By Associated Fumigators, Ltd., 112 Victoria Dock Road, London, E.16. 639,153.

"QUALITEX"; for toilet paper (medicated) (5); (16). By British Home Stores, Ltd., Abbey House, 221 Baker Street, London, N.W.1. 641,887-88 (Associated).

"GREMLINS" on design incorporating a gremlin; for medicated tablets for analgesic purposes (5). By George Wright Taylor, 40 Duncombe Street, Walkley, Sheffield. 644,086 (Associated).

"PENTOSTAM"; for all goods (5). By The Wellcome Foundation, Ltd., 183 Euston Road, London, N.W.1. 644,122.

"SEASHORE"; for medicated toilet paper (5). By Superior Papers, Ltd., Bridge Works, Iver Lane, Cowley, Middlesex. 644,301 (Associated).

"FLEBETOX"; for insecticides (5). By Pest Control, Ltd., Harston, Cambridgeshire. 644,555.

"DISEC"; for insecticides (5). By W. Fletcher (Chemists), Ltd., 5 Rampayne Street, Vauxhall Bridge Road, London, S.W.1. 644,582.

"TRIXONIC"; for electrical apparatus and instruments included in this class; scientific, cinematographic and teaching apparatus and instruments, coin or counterfreed apparatus and talking machines (9). By The Trix Electrical Co., Ltd., 1 Maple Place, Maple Street, Tottenham Court Road, London, W.1. 642,635.

"AIRMATIC"; for surgical appliances and apparatus (10). By Le Brasseur Surgical Manufacturing Co., Ltd., 90 Worcester Street, Birmingham, 5. 644,204.

(From "The Trade Marks Journal," January 8)

"HIGHEST OF ALL" on pictorial design of factory including smoking chimney (words "highest of all" disclaimed); for borax, boric acid and preparations containing borax, all prepared for pharmaceutical purposes (5); borax, boric acid and preparations of borax all for industrial purposes and food preservatives (1). By Joseph Townsend, Ltd., 31 Townsend Street, Port Dundas, Glasgow. 640,270-71 (Associated).

"FURN ISSIA" and device of fern leaf; for chemical products used in industry, science and photography; chemical products used in agriculture, horticulture, forestry (other than fungicides, insecticides and preparations for killing weeds); manures (natural and artificial) and fertilisers (1). By Thomas Furniss (Sheffield), Ltd., 73-75 Norfolk Street, Sheffield, 1. 642,208 (Associated).

"VISTONE"; for chemical substances for addition to motor spirits or lubricants to alter or improve the characteristics thereof (1). By Standard Oil Development Company, 100 West Tenth Street, Wilmington, Delaware, U.S.A. 643,625.

"PROTEK-SORB"; for chemical compositions for absorbing moisture (1). By The Davison Chemical Corporation, Rouse Building, 20 Hopkins Place, Baltimore, Maryland, U.S.A. 643,817.

"TOPIT" and "TOPITO"; for preperations for removing stains from textile fabrics (3). By Thawpit (Proprietary), Ltd., Woodstock Factory, Woodstock Grove, Shepherd's Bush, London, W.12. 637,971-72 (Associated).

Signature of J. Bleddyn Morris; for toilet preparations (not medicated) (3). By The Brynn Manufacturing Co., Ltd., 272 Wigan Road, Brynn, Lancaster. 641,453.

"DAYFIX" in distinctive lettering; fo toilet preparations for the hair (3). B Stanley James Davey, Cannon Stree Hanley, Stoke-on-Trent. B640,540.

"PASSING CLOUD"; for liquid perfume (3). By De Graf Perfume Bars, Ltd 19 Grosvenor Gardens, Temple Fortun London, N.W.11. 643,316.

"OOZOO"; for toilet preparations fo cleaning artificial dentures (3). By S Cheetham & Sons, 25 Leigh Roa Hindley Green, nr. Wigan. 644,521.

"WILD MINX" and "WILD MINK"; fo bath salts, talcum powder and fac cream, all being non-medicated toil preparations; lipstick, soaps, perfume dentifrices, brilliantine and hair lotio (3). By Lentheric, Ltd., 17 Old Bon Street, London, W.1. 644,532-3 (Associated).

"MISTER SWIFTIE"; for cleaning, polis ing, scouring and abrasive preparatio (3); pharmaceutical preparations ar substances (5). By Ashe Laboratori Ltd., 120 Victoria Street, Westminste London, S.W.1. 644,538-39 (Asso ated).

"HORMOTOMIN"; pharmaceutical ton preparations (5). By Nu-Organ Remedies, Ltd., 192A Broadhurst Ga dens, West End Lane, London, N.W. 642,462.

"NORVIKS" on head of a viking warrio for pharmaceutical preparations for u in the treatment of coughs, col catarrh and the like ailments (5). James Cook, 46 St. Stephen's Stre Norwich. B642,623.

"BENECARDIN"; for pharmaceutical pr ducts for human use containing cardi (5). By Benger's, Ltd., Holmes Chap Cheshire. B642,899 (Associated).

"BRYTONA"; for pharmaceutical prepa tions (5). By Bryten Toilet Produc Ltd., 299 London Road, Ewell, Surr 643,425.

"MENOGENE"; for pharmaceutical p parations and substances (5). By Cl ical Products, Ltd., 2 The Green, Ri mond, Surrey. 643,513 (Associated

"LACTOPELLIN"; for pharmaceutical p parations and substances (5). By Ba Products, Ltd., 14 Waterloo Place, P Mall, London, S.W.1. 643,538.

"UCADEIN"; for pharmaceutical prepa tions and substances (5). By Unit Chemists Association, Ltd., Ucal Wor High Street, Cheltenham. 644,4 (Associated).

INFLUENZA TIME

Pharmacists have the responsibility of providing the public with means of avoiding or curtailing the minor ailments — sore throats, colds and coughs — associated with the influenza season, and of supplying a tonic to convalescents.

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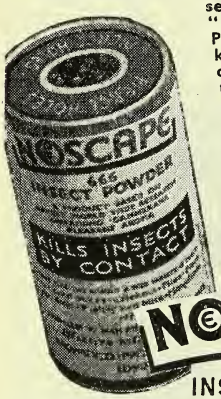

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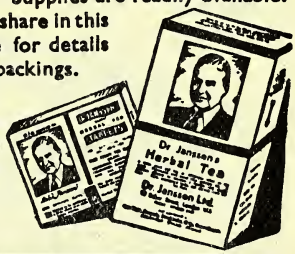

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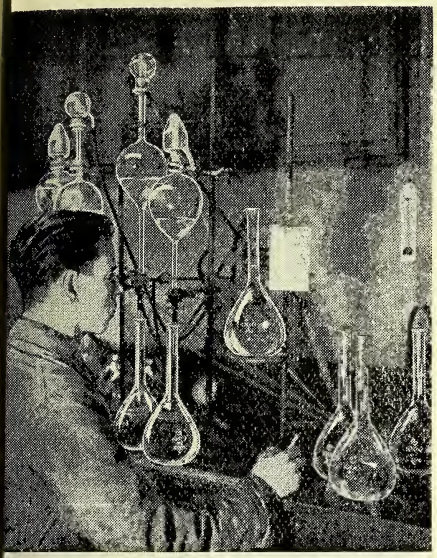

Accuracy in Calibrating.

The calibrating of PYREX Brand Glassware is an operation calling for extreme accuracy. The system employed is simple but effective. Our photograph shows the first operation in which an automatic pipette is used to run the correct amount of water into each flask. A hair line is then painted on the neck of the flask to indicate the height of water, after which the flask is waxed, the line is marked on the graduating machine and finally is etched with acid, and the markings filled with white enamel.

Cassia Flasks, as shown in the illustration below are calibrated by a somewhat different process, but in each case a very high degree of accuracy is attained.

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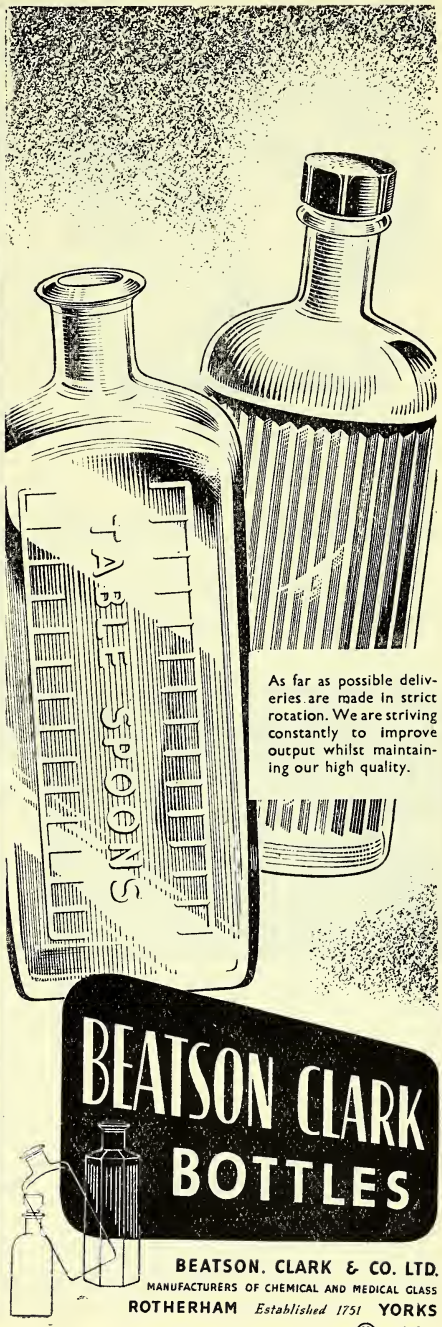

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ROTHERHAM *Established 1751* **YORKS**

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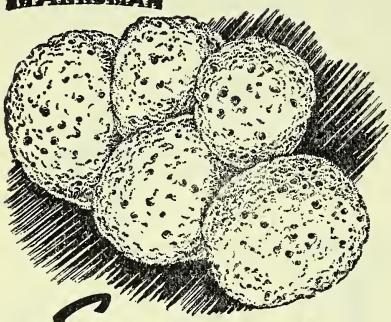

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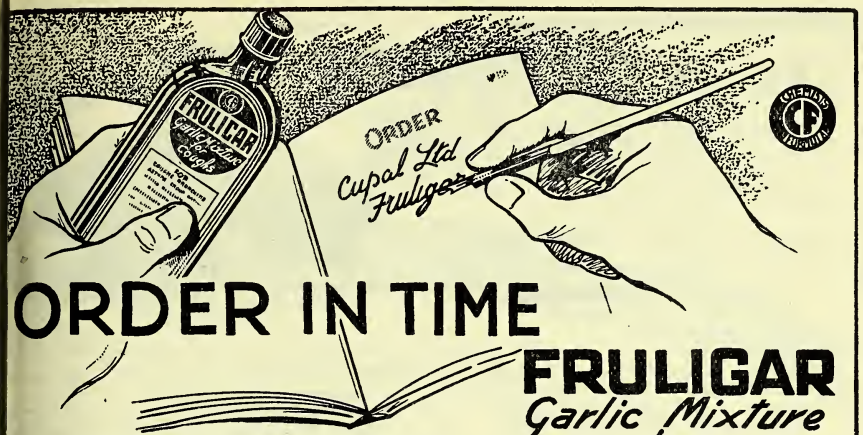

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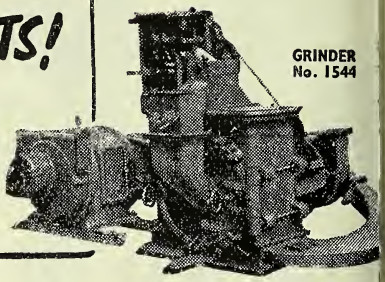

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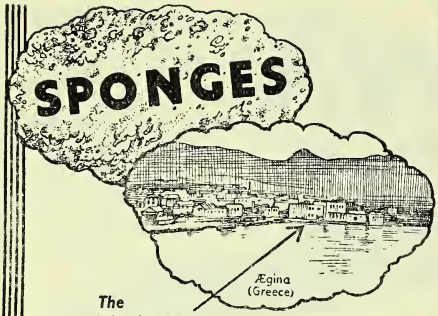

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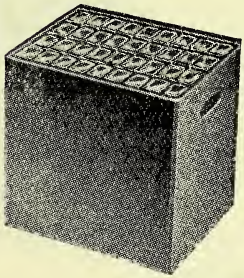

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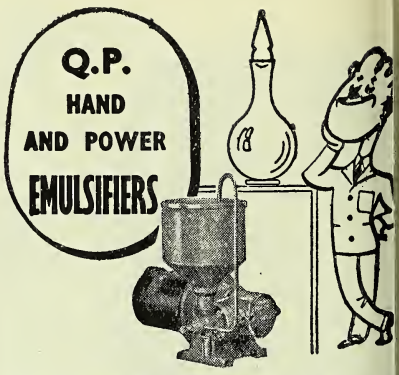

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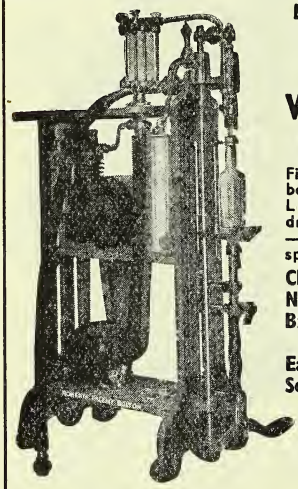

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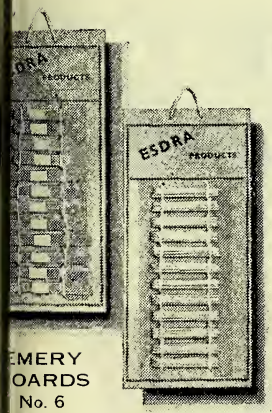

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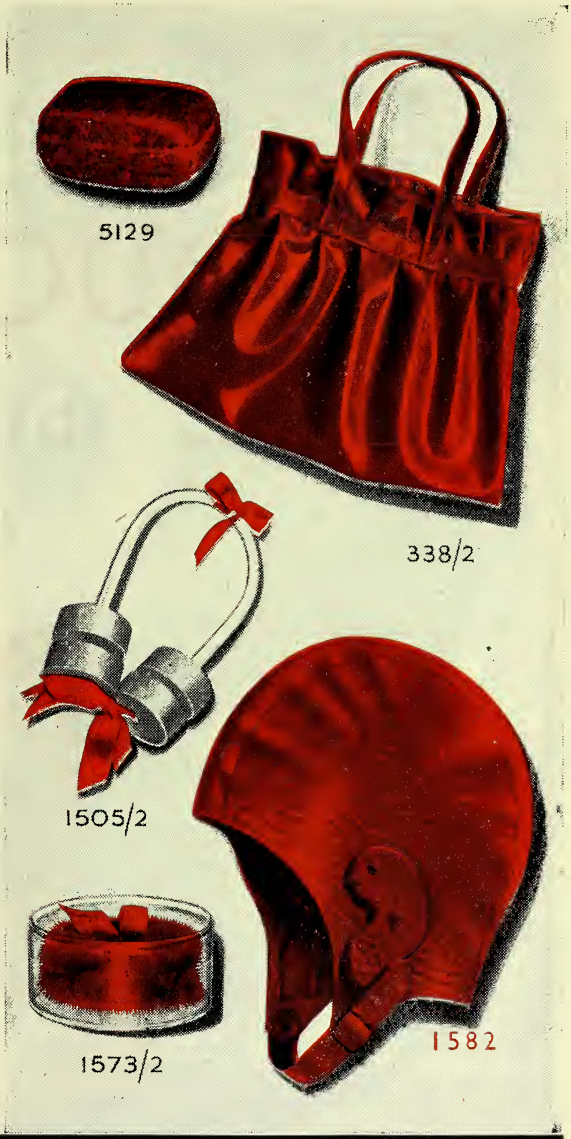

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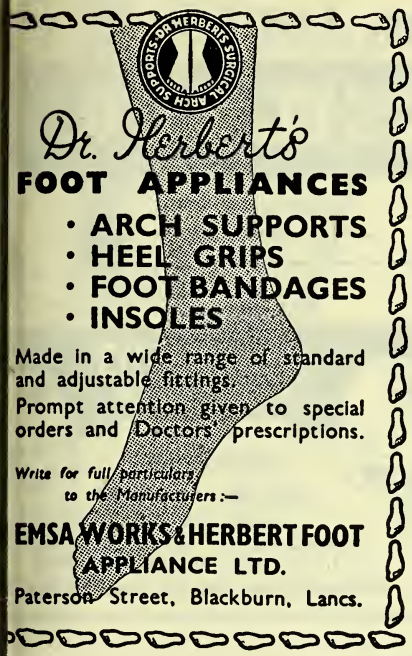

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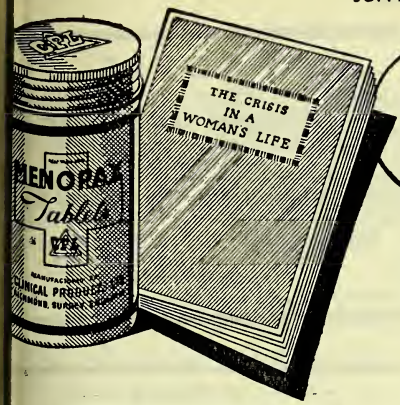

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These practical and attractive Pouchettes have instant appeal. Measure 10¼" x 7" with two divisions and positive snap fastener. Various colours available. Price 69/- per dozen plus 33⅓% Purchase Tax. Carriage paid one dozen and over.

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Established 1660

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Milward's VIM

REGD. TRADE MARK

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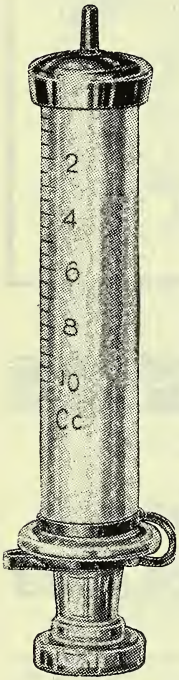

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REPAIR SERVICE AVAILABLE

Sizes 1 cc. to 20 cc.

Chas. F. Thackray LTD

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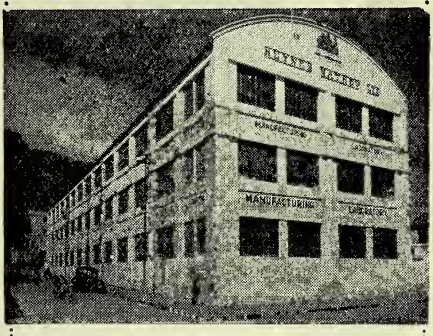
ESTABLISHED 1836



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The attention of British manufacturers is directed to the economy that can be effected by having their Patent and Proprietary preparations produced and marketed in South Africa.

In our well-equipped modern factory controlled by a highly qualified and experienced staff we now act for a number of overseas houses who can testify to our ability and integrity.

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SCISSORS · TWEEZERS · FORCEPS · NAIL & MANICURE FILES

In Stainless Steel—Nickel Plated and Chromium over Nicke

Our order books are full for some time ahead, and immediate deliveries cannot be promised. We shall, however, welcome your enquiries for forward deliveries. *(WHOLESALE ONLY SUPPLIED*

Shake as you will, the powder cannot escape—one t on the disc and Presto!—there is the powder ready for us The all-metal "Non-Spill" Powder Compact is une constructed with no sifter to replace, and nnished in variety of attractive designs.

The 'NON-SPILL' *Modern Powder Compact*

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For that reason, constant Goodwill advertising appears in the National Newspapers and Magazines, on behalf of DOLLY CREAM. It pays you to stock "goodwill" lines.

DOLLY CREAM

also DOLLY BISCUIT TINT

Made by Wm. EDGE & SONS LTD., BOLTON 22

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MENTHOL crystals.

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GUMS Kordofan, Karaya, Tragacanth, etc. (whole and powdered)

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National Press, the Provincial and Press, and the Cinemas throughout the try, support the sale of these Emmet over the whole area of their distribution.

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C.F. and P.A.T.A. line etailing at 1/5 and 3/4½. old only through qualied chemists.

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FOR ASTHMA

Sold through qualified chemists at 10/-.

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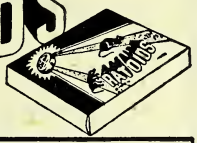

ed Squill Biscuits for ats, 1/9, 4/9, 40/-. rumbs for Mice - 1/2.

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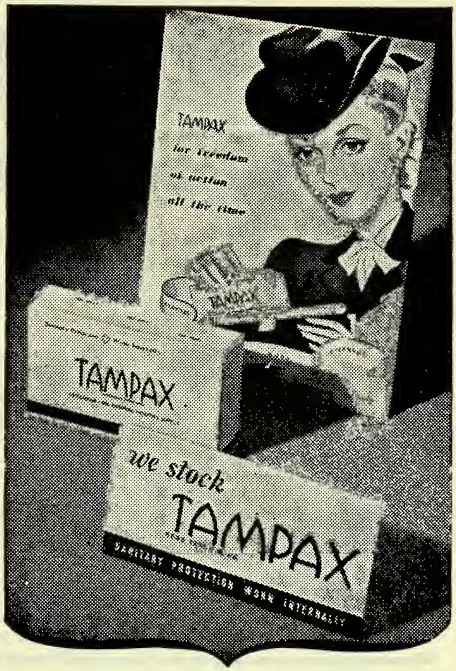
DOG POWDERS

Tonic, aperient and digestive. 9 powders for 7d.

MET DISTRIBUTING CO LTD, 140 PARK LANE W.1



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Steadily increasing demands for Tampax are now being met by the improved supply position. This inevitably means increased sales for *you*—sales which can be helped by displaying Tampax prominently in your window and on your counter, for where women see, they buy. We shall be happy to send you on request either or both of the attractive sales aids shown above.

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REGISTERED TRADE MARK

Packets of 10: TRADE 15/9 doz. RETAIL 1/9 Packet.

Distributed through leading wholesalers

TAMPAX LIMITED

Sales Office: **110 Jermyn Street, London, S.W.1**

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A Ladder stop that is NOT a Nail Varnish

HOSE GUARD

Hose Guard stops ladders instantly, yet the material remains soft, it does not harm the finest stocking or prevent it being invisibly mended.

Hose Guard is a chemical solution made specially for hosiery; has been acclaimed by many leading actresses and is nationally advertised.

Supplied in small bottles for the handbag to retail at 1/6d. Attractive display packs ready for your counter containing 2 dozen bottles.

Obtainable from

SALE TILNEY & CO. LTD.
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Death to Flies

SCOTT'S D.D.T. FLY and MOT PAPERS

DESTROY FLIES ON CONTACT 4 EAC

THIS YEAR'S FASTEST SELLING LI

Scott's D.D.T. Fly Papers will clear a roo of flies, gnats, midges, etc., in no tim D.D.T. is absorbed through the pads of t flies' feet which causes death very quick

PRICE 36/- PER GROSS
TRADE & WHOLESALE ENQUIRIES INVITED

SOLE MANUFACTURERS:
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SANITARY TOWELS
for Perfect Reliability
NON CHAFING
HIGHLY ABSORBENT
In various sizes

WILFRED STRETCH & Co.
LIMITED
CASTLETON • ROCHDALE

Applied Before Work

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Keeps Hands Clea

Limited Supplies now available through recognised Wholesalers

Only Pack (*Temporary*) availab

Tins retailing at 2/1d. includin purchase Tax

Retail discount 25%

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PLEASE RETURN YOUR EMPTY SAN IZAL CASES

There is a desperate shortage of fibreboard cases. Future supplies of San Izal disinfectant largely depend upon the prompt return of empties mplete with inner divisions. Please empty ur San Izal cases *now* and put them ready Container Recovery Service to collect.

If you have any difficulty over collections please write to us.

EWTON, CHAMBERS & CO. LTD.,
THORNCLIFFE, SHEFFIELD

SANGENE
Brand
PRODUCTS
announce that their
★ANTISEPTIC INFANTS DUSTING POWDER★
in Sprinkler Tins is a delightfully packed
NURSERY REQUISITE
Distributed by S. MAW, SON & SONS, LTD. of NEW BARNET

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FROM 'THE C & D' JAN. 4th, 1947

Medical officers reported that the ointment eased the pain and caused rapid healing, some describing it as the best remedy they had met.

for CHILBLAINS

Here is a fine chance of getting in at the start of a really quick-selling line. It's a remarkable new chilblain ointment, offered by Perivale Laboratories, and made according to a formula used with outstanding success among A.T.S girls by the Medical Department of the War Office (see 'The Lancet' Nov. 9th 1946). Don't delay ordering . . . stock up *now* while the chilblain season is at its worst.

TERMS: PRICE TO PUBLIC: 2/- + 3d. P.T.
PRICE TO YOU 16/- per doz.
(*less usual quantity discounts*)

PERIVALE CHILBLAIN OINTMENT

Prepared by Perivale Laboratories Ltd.,
Wadsworth Road, Perivale, Middlesex.

FOR SUPREME ACCURACY

insist on—

BRANNAN THERMOMETERS

ALL TYPES—
CLINICAL
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Syringe

MANUFACTURERS

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Durable and resistant to corrosion.

New barrels fitted to own Syringes.

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sorry to keep asking

BUT WE MUST HAVE THOSE CONTAINERS BACK, *PLEASE!*

Every container that gets lost or mislaid means a delay in deliveries to somebody—and it might be you! So please don't hoard or give away your boxes and fibreboard containers—put them away in a safe, dry place until the C.R.S. van comes and calls for them. In that way you'll help to cut down delays in deliveries to a minimum, and bring the day nearer when there will be plenty of containers to spare!

MAY WE REMIND YOU ALSO . . .

1. Open C.R.S. wood and fibreboard cases carefully, to avoid damaging tops and sides. 2. Store them out of the weather until collection. 3. Fold C.R.S. collapsible cartons FLAT—with flaps sticking OUT (otherwise flaps have to be untucked before re-use). 4. Vans collect during normal deliveries. C.R.S. vans provide additional collections at regular intervals. Cash paid on spot.

★ Authorised Collectors of empty containers for many leading Food, Soap, Toilet and Household Product Manufacturers.

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Telephone: Central 7474 Telegrams: Spedeco, Telex, London

CRS 30A-51

Container Recovery Service does NOT operate in N. Ireland, Isle of Man and Channel Islands

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FOR THE
HOME TRADE
as well as for EXPORT

Obtainable from
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Continuous and Steadily Advertised Goods
FOR DESTROYING RATS AND MICE

DANYSZ VIRUS

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3 tubes, 5/-
Virus for Mice only, single tube, 1/6 9/- ,,
3 tubes, 3/-
Date-expired tubes returned to us postage paid will be exchanged free of charge.

Danysz Virus in Liquid Form

Retail Price Wholesale Price
Bottles 6/- each ... ... 4/6 each
,, 4/6 ,, ... 3/9 ,,

HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices 25 p.c. Monthly Account, or 33⅓ p.c. Cash with Order.

	Retail	Monthly A/c	Cash with Order
½ gall. tins	10/-	7/6	6/8
1 ,, ,,	18/-	13/6	12/-
5 ,, ,,	80/-	60/-	53/4

DANZO BEETLE POWDER

For destroying Blackbeetles, Cockroaches, Crickets, etc.

Retail Prices (Protected) Wholesale Prices
In cartons 9d. each ... ... 6/9 per doz.
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Danzo Beetle Powder will not deteriorate by keeping.

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Offered in substantial quantities.
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for Textile and other technica and general uses.

Some lines not yet available owing to war-time regulations.

W. M. DELF & CO.
SOAP AND DISINFECTANT MANUFACTURERS
DELCO WORKS, RICE LANE, LIVERPOOL,
Telegrams: Glycerine, Liverpool
Telephone: Aintree 1752 (2 lines)

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by the Manufacturers of

THE ORIGINAL HAARLEM OIL OR 'DUTCH DROPS'

The Claes Tilly Company of Haarlem, Holland, Inventors and Manufacturers of the *Original* Haarlem Oil (or 'Dutch Drops') Liquid and Capsules, beg to inform all customers that WATFORD CHEMICAL CO. LTD., LONDON, W.1, are no longer the Company's Agents and Distributors.

We regret and apologise for the recent delay in executing many valued orders due entirely to matters beyond our control, and we now ask for further kind indulgence for a short time. The world-famous Claes Tilly 'Dutch Drops' and Capsules will shortly be made (to the original formula of 1695) in the United Kingdom, and will be distributed there and throughout the British Empire and Colonies by this Company direct.

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N.B. When ordering always specify Claes Tilly Original 'Dutch Drops' or Capsules

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Manufactured
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Natural Size

CARNEGIE CHEMICALS (WELWYN) LTD.

Manufacturers of Fine Chemicals

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Felsol REGD POWDERS for ASTHMA

Resuming Normal Supplies

Although all demands for FELSOL cannot yet be met as quickly as we should like, we are pleased to announce that production is now steadily increasing week by week. Supplies therefore are not so limited as previously and the delays in deliveries caused through war-time hindrances are gradually being overcome.

With the efforts now being made to resume normal supplies, it is hoped that, in the near future, all orders for the standard size will be executed without delay. For the time being the large size must still be reserved for physicians' private prescriptions, hospital and N.H.I. dispensing purposes.

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